

1974

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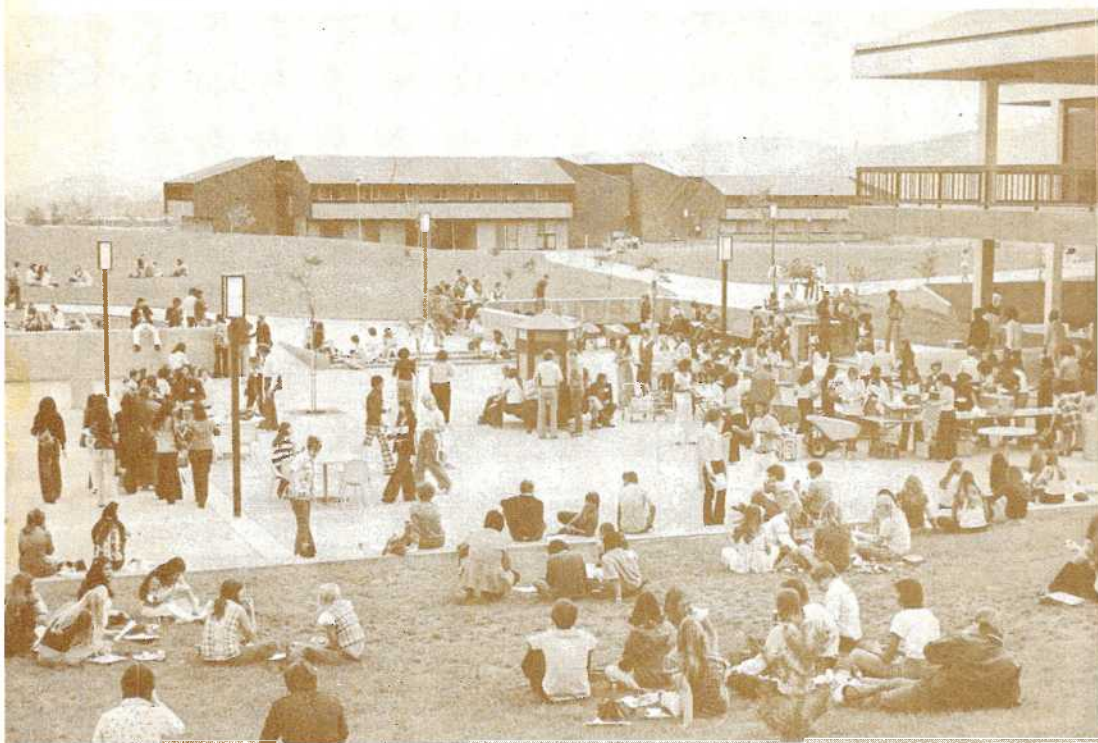
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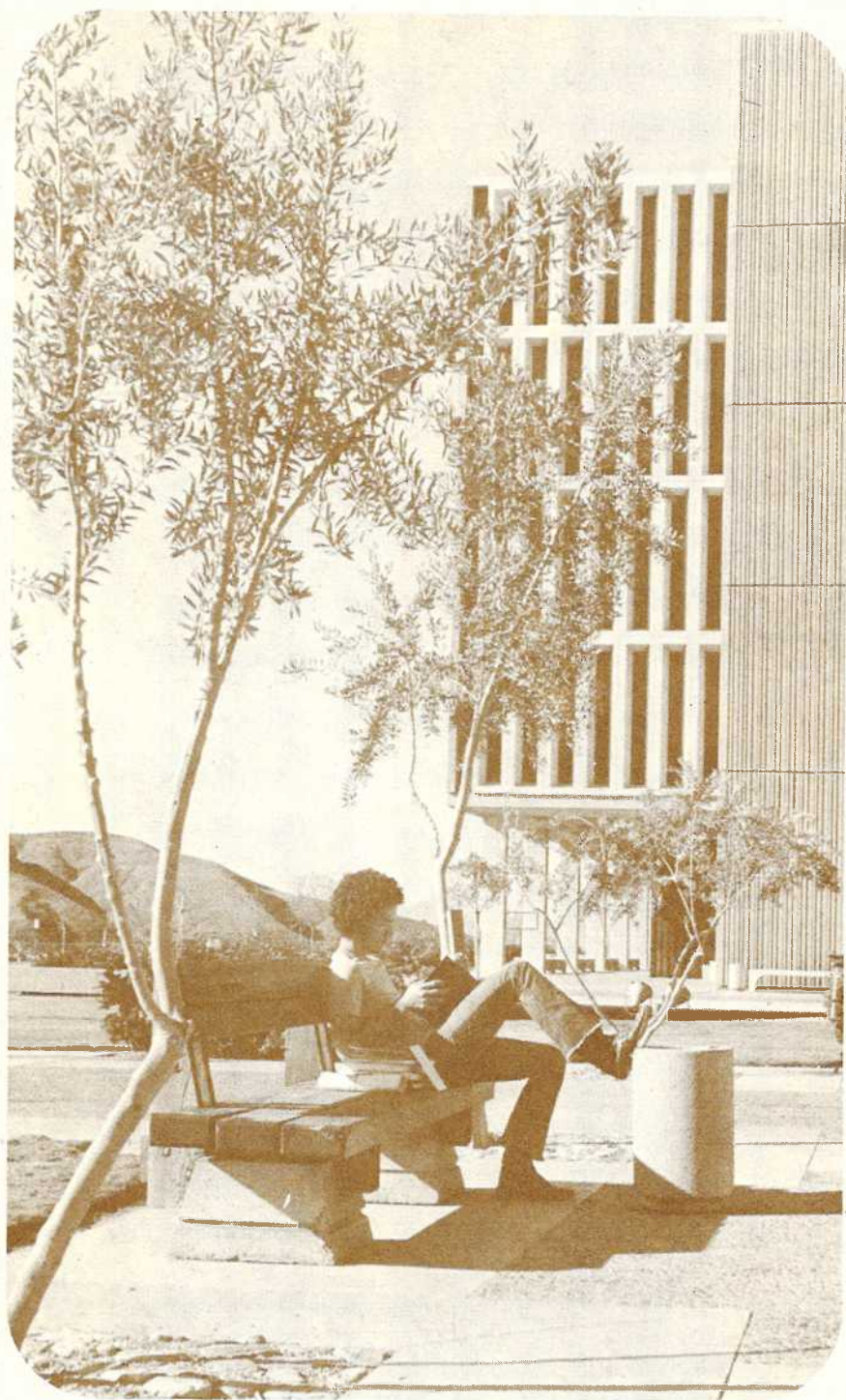
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# *Bulletin 1974-75*



California State College, San Bernardino





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## CALENDAR

1974-75

### FALL TERM

Sept. 2	Labor Day, administrative holiday
Sept. 9	Admission Day, administrative holiday
Sept. 23	Beginning of the academic year
Sept. 23-27	Orientation and testing of new students
Sept. 26	Advising for juniors, seniors and graduate students
Sept. 27	Advising for freshmen and sophomores
Sept. 30-	
Oct. 1	Registration
Oct. 3	Classes begin
	Late registration
Oct. 9	Last day to add classes
Oct. 23	Last day to drop classes
Oct. 24	Last day to file graduation check for March graduation
Nov. 28-29	Thanksgiving, academic and administrative holiday
Dec. 9-13	Advising
Dec. 13	Last day of classes
Dec. 16-18	Final examinations
Dec. 18	End of term

### WINTER TERM

Dec. 23	Administrative holiday
Dec. 25	Christmas, administrative holiday
Jan. 1	New Year's Day, administrative holiday
Jan. 2-3	Registration
Jan. 6	Classes begin
	Late registration
Jan. 10	Last day to add classes
Jan. 24	Last day to drop classes
Jan. 27	Last day to file graduation check for June, July and August graduation

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### September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### October

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

### November

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

### December

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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### January

S	M	T	W	T	F	S
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

### February

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

March 10-14 Advising  
 March 14 Last day of classes  
 March 17-19 Final examinations  
 March 19 End of term

March						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## SPRING TERM

March 26-27 Registration  
 March 31 Classes begin  
 Late registration  
 April 4 Last day to add classes  
 April 18 Last day to drop classes  
 April 21 Last day to file graduation requirement  
 check for December graduation  
 May 26 Memorial Day, academic and administrative holiday  
 June 9 Last day of classes  
 June 11-13 Final examinations  
 June 13 End of term  
 June 14 Commencement  
 End of academic year

April						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May						
S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

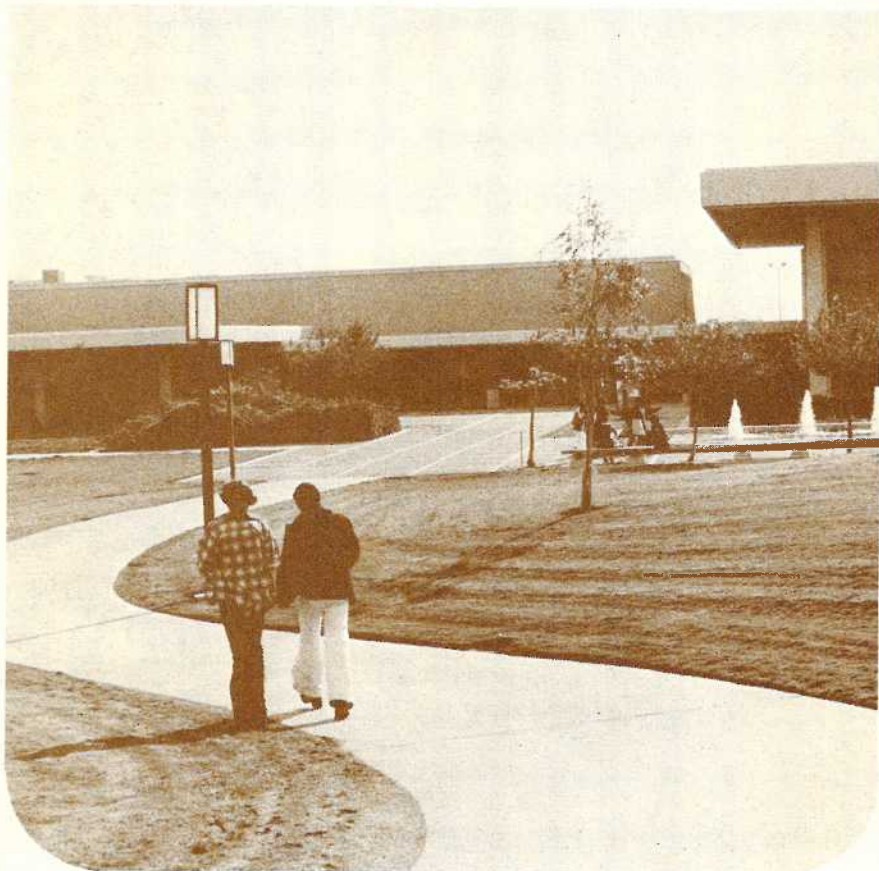
## SUMMER SESSIONS

June 16 Registration  
 June 18 Classes begin for 6-week session and  
 first 3-week session  
 July 3 Classes end for first 3-week session, final  
 examinations  
 July 4 Independence Day, academic and administrative holiday  
 July 7 Classes begin for second 3-week session  
 July 22 Last day of classes for 6-week session  
 July 24 Final examinations for 6-week session  
 July 25 Classes end for second 3-week session,  
 final examinations  
 July 28 Classes begin for third 3-week session  
 August 15 Classes end for third 3-week session,  
 final examinations

June						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						





## THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act in 1960. In 1972 the system became The California State University and Colleges and 14 of the 19 campuses received the title University.

The oldest campus—San Jose State University—was founded in 1857 and became the first institution of public higher education in California. The newest campus—California State College, Bakersfield—began instruction in 1970.

Responsibility for The California State University and Colleges is vested in the Board of Trustees, whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers on the respective campuses.

The trustees, the chancellor and the presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University and Colleges, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the chancellor.

Academic excellence has been achieved by The California State University and Colleges through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "general education-breadth requirements" regardless of the type of bachelor's degree or major field selected by the student. A few doctoral degrees are offered jointly with the University of California.

Presently, under the system's "new approaches to higher education," the campuses are implementing a wide variety of innovative programs to meet the changing needs of students and society. Among pilot programs under way are instructional television projects, self-paced learning plans, minicourses and credit-by-examination alternatives. The Consortium of The California State University and Colleges fosters and sponsors local, regional and statewide external degree and certificate programs to meet the needs of individuals who find it difficult or impossible to attend classes on a campus.

Enrollments in fall 1973 totaled nearly 290,000 students, taught by a faculty of 16,000. Last year the system awarded more than 55 percent



of the bachelor's degrees and 35 percent of the master's degrees granted in California. More than 400,000 persons have been graduated from the campuses since 1960.

**California State College, Bakersfield**

9001 Stockdale Highway  
Bakersfield, California 93309  
Jacob P. Frankel, President  
805 833-2011

**California State University, Chico**

1st and Normal Streets  
Chico, California 95926  
Stanford Cazier, President  
916 345-5011

**California State College,  
Dominguez Hills**

1000 East Victoria Street  
Dominguez Hills, California 90247  
Leo F. Cain, President  
213 532-4300

**California State University, Fresno**

Shaw and Cedar Avenues  
Fresno, California 93740  
Norman A. Baxter, President  
209 487-9011

**California State University, Fullerton**

800 North State College Boulevard  
Fullerton, California 92634  
L. Donald Shields, President  
714 870-2011

**California State University, Hayward**

25800 Hillary Street  
Hayward, California 94542  
Ellis E. McCune, President  
415 884-3000

**Humboldt State University**

Arcata, California 95521  
Alistair W. McCrone, President  
707 826-3011

**California State University, Long Beach**

6101 East Seventh Street  
Long Beach, California 90840  
Stephen Horn, President  
213 498-4111

**California State University, Los Angeles**

5151 State University Drive  
Los Angeles, California 90032  
John A. Greenlee, President  
213 224-0111

**California State University, Northridge**

18111 Nordhoff Street  
Northridge, California 91324  
James W. Cleary, President  
213 885-1200

**California State Polytechnic University,  
Pomona**

3801 West Temple Avenue  
Pomona, California 91768  
Robert C. Kramer, President  
714 598-4592

**California State University, Sacramento**

6000 J Street  
Sacramento, California 95819  
James G. Bond, President  
916 454-6011

**California State College,  
San Bernardino**

5500 State College Parkway  
San Bernardino, California 92407  
John M. Pfau, President  
714 887-6311

**San Diego State University**

5402 College Avenue  
San Diego, California 92115  
Brage Golding, President  
714 286-5000

**San Francisco State University**

1600 Holloway Avenue  
San Francisco, California 94132  
Paul F. Romberg, President  
415 469-2141

**San Jose State University**

125 South Seventh Street  
San Jose, California 95114  
John H. Bunzel, President  
408 277-2000

**California Polytechnic State University,  
San Luis Obispo**

San Luis Obispo, California 93407  
Robert E. Kennedy, President  
805 546-0111

**California State College, Sonoma**

1801 East Cotati Avenue  
Rohnert Park, California 94928  
Thomas H. McGrath, President  
707 795-2880

**California State College, Stanislaus**

800 Monte Vista Avenue  
Turlock, California 95380  
Carl Gatlin, President  
209 633-2122



## **SAN BERNARDINO: LOCATION AND HISTORY**

The city of San Bernardino is situated at the foot of the San Bernardino Mountains, which form the northeastern boundary of the San Gabriel Valley. The valley's western terminus, 60 miles away, is the Los Angeles basin and the beaches of the Pacific Ocean.

In earlier times the San Bernardino area was the home of Serrano, Luiseno and Cahuilla Indians. The first pioneers from Mexico settled in the San Gabriel Valley in the 1770's. Mission San Gabriel was founded by Fr. Junipero Serra in 1771, ten years before pueblo Los Angeles was established. The mission built a fortified asistencia near modern San Bernardino in 1819, but this was abandoned in 1834 when newly independent Mexico secularized the missions.

In 1842 the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

### **Inland Southern California**

Historic San Bernardino Valley is part of inland southern California, an area encompassing all of San Bernardino and Riverside counties. The College is within the Riverside-San Bernardino-Ontario metropolitan area and serves as well more distant locations in the two counties—the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.





## THE COLLEGE ACADEMIC PROGRAM

As it approaches its second decade, California State College, San Bernardino continues its development in new directions.

The College opened in 1965, offering six degree programs to just under 300 students. During its initial phase of development, the College focused upon a strong liberal arts curriculum, which by 1973 had been expanded to 26 baccalaureate degree programs, several teaching credential fields and seven options within three M.A. degree programs. Enrollment had topped 3,100 and was continuing its steady climb.

While continuing to emphasize the liberal arts, the College is now developing a number of career-oriented programs, both at the undergraduate and the graduate levels.

### **Academic Plan**

The College has adopted an academic calendar consisting of three 11-week terms which differs from the conventional quarter system in that full-time students normally enroll in only three courses per term. Under the three/three plan, each course normally meets four hours per week (laboratory and studio courses are exceptions). The student thus is in class 12 hours per week or the equivalent, instead of the traditional 15. Such reduction of classroom time is balanced by increased assignment of written work and greater emphasis on independent study and independent laboratory work. This academic program is designed to afford the student the opportunity to carry on studies in depth and in breadth, to develop abilities to work independently and to achieve intellectual growth.

### **Class Size**

A distinctive feature of the San Bernardino plan is that the maximum enrollment in most classes (nearly 90 percent) is limited to 20. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the 20-student class as the norm requires that a small proportion of courses be offered in a large-lecture format (maximum enrollment of 250) or in an intermediate size (enrollment of 50 to 100).

Among lower-division general education courses, those in the Basic Studies area, in foreign language and in philosophy are offered mostly through small classes, while those in other areas employ intermediate or large-lecture classes. Upper-division general education courses are also offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required or elective courses, but the vast majority of departmental offerings are in small classes. The



typical laboratory section has a maximum enrollment of 24, sometimes less.

### Accreditation

The California State College, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs of the College are approved by the California State Board of Education. The Chemistry Department is accredited by the American Chemical Society.

### Baccalaureate Degree Programs

In the 1974-75 academic year, the College will offer bachelor's degrees in the following fields:

#### School of Administration

Administration	B.A./B.S.
----------------	-----------

#### School of Humanities

Art	B.A.
Drama	B.A.
English	B.A.
French	B.A.
Humanities	B.A.
Music	B.A.
Philosophy	B.A.
Spanish	B.A.

#### School of Natural Sciences

Biology	B.A./B.S.
Chemistry	B.A./B.S.
Health Science	B.S. (approval pending)
Mathematics	B.A.
Nursing	B.S.
Physics	B.A./B.S.

#### School of Social Sciences

Anthropology	B.A.
Criminal Justice	B.A.
Economics	B.A.
Geography	B.A.
History	B.A.
Political Science	B.A.
Psychology	B.A.
Social Sciences	B.A.
Sociology	B.A.

#### Interdisciplinary Programs

Child Development	B.A.
Environmental Studies	B.A.
Liberal Studies	B.A.
Special Major	B.A.

## **Graduate Programs**

In the 1974-75 academic year, the College will offer master's degree programs in the following fields:

Administration, M.A.

(with options in business administration and public administration)

Education, M.A.

(with options in elementary education; history and English [for secondary teachers]; and school counseling)

Psychology, M.A.

(with a general option and a clinical/counseling option)

Special Major, M.A.

## **New Programs**

Several new programs at the College are described for the first time in this Bulletin. In the field of administration, a concentration in public administration has been developed at the undergraduate level, and a master's degree program has been introduced. Four new interdisciplinary baccalaureate degree programs have been added to the curriculum: child development, criminal justice, environmental studies and liberal studies. Minor programs are now available in physical education and in recreation. Also new at the master's level are the M.A. in psychology, with two options, and a school counseling option in the M.A. in education.

Major revisions have been made in the degree programs in anthropology, art, drama, French and geography. Also, the professional programs in education have been modified to meet the new requirements for teacher preparation and licensing (Ryan Act). The College has continued to add many new courses to the curriculum to meet the varied needs of its expanding student body. Some of these courses are traditional (Archeology, Public Finance, Urban Geography); some deal with contemporary concerns (Economics of the Environment, Health and Society, Psychology of Women); and some are of an applied nature (Journalism Practicum, Introduction to Data Processing, Practical Spanish for the Health Professions).

## **Programs Under Development**

Programs currently in various stages of development, and projected for implementation in the 1974 and 1975 academic years, are described below. More specific information can be obtained from the Office of Academic Planning or the appropriate schools and departments.

*Biology (M.S.)* This new graduate program will provide a high degree of flexibility in preparation for career advancement in biology and related fields and opportunities for students to engage in self-directed study and research.

*Community Service.* An experimental course is being offered in 1974-1975 which is designed to meet the needs of the area served by

the College and to involve students in community service. Through this course students may receive credit (up to six units) for performing tasks in such agencies as governmental, social service and educational institutions.

*Comprehensive Examinations.* Students now have limited opportunities to spend a full term out of the classroom while preparing for comprehensive examinations that serve as alternatives to regular instruction. Comprehensive examinations are currently available in psychology, sociology and in upper-division general education. (For a description of this particular offering, see Interdisciplinary Studies 388.) During the 1974-75 academic year additional examinations will be tested in administration and criminal justice.

*Cooperative Education.* The College is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in administration, child development, criminal justice, education, political science and sociology.

*Health Science (B.S.)* The program under development will emphasize an ecological approach to health and will offer course work in many areas of health science. Environmental health and consumer protection courses are designed to impart an understanding of the impact on health and well-being of the interaction of man with his biological and physical environment. Community health offerings will focus on health issues pertinent to the individual and society and seek to provide an understanding of factors affecting physical and mental health.

*Human Services (B.A.)* This flexible, interdisciplinary program is designed to develop or enhance skills in interpersonal relations, including interviewing, counseling and community service.

*Nursing (B.S.)* The College is developing a program of upper-division course work leading to the B.S. in nursing. Designed for R.N. nurses with an A.A. degree (or equivalent), this program will have a community health emphasis, will provide opportunities for specialization in episodic or distributive nursing, and will be open to both full- and part-time students in daytime and late-day classes.

*Self-Paced, Independent Study Courses.* An alternative mode of instruction, being developed for a few courses, enables students to enroll on an independent study basis and set their own learning pace, through the use of study guides, video tapes and other instructional resources. Currently available in this format are English 170, French 420, Spanish 504 and Social Sciences 210.

## **Facilities**

The academic program is complemented by an excellent physical plant, consisting of 10 air-conditioned buildings. In addition to the expected facilities for course work in the arts, letters and sciences, the

College has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional center for counseling psychology, an electronic music studio, and a scanning electron microscope.

### **The College Library**

The Library of the College consists of a general undergraduate collection of 200,000 books and bound periodicals. The Library subscribes to 1,500 periodicals and newspapers in addition to other serial publications. Recordings, musical scores, maps, microform and curriculum materials supplement the book collection. The Library serves as a depository for the publications of the State of California.

The Library occupies substantial portions of the Library-Classroom building. It provides individual study cubicles, listening facilities, microform readers, and photo-duplicating services, as well as seating for about 700 individuals.

### **The Learning Center**

The Learning Center is in the process of developing a wide variety of services to assist the student. Personal assistance and direction is now available for the following programs:

Tutoring for basic classes, algebra, statistics, foreign languages, and the research and writing of papers.

A self-paced, individually designed program to develop study skills (listening/notetaking, time management, memory devices, exam taking, reading, library skills and use of the dictionary).

Multimedia delivery of self-instructional programs for vocabulary, spelling, grammar, reading (speed and comprehension), basic math, algebra, statistics, accounting and independent study.

Cassette and video tapes of specific classes and foreign languages.

### **Scheduling of Classes**

Two basic plans are used in scheduling classes—four 50-minute periods per week or two 100-minute periods. Principal exceptions occur among laboratory and studio courses and courses which carry fewer than five units credit. The four-period, four-day-per-week format is utilized mostly for morning classes, and the two-period, two-day-per-week format for late afternoon and evening classes. The College attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.

### **Late-Day Classes**

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proved to be of convenience to regular students, teachers, businessmen and others in the community. The proportion of late-day classes has been increasing and stands currently at about 25 percent of all classes.



## **Evening Services Office**

The College maintains an office to serve evening students. This office provides these students with many of the services usually offered during the day, such as academic advisement, help with college regulations and the receiving of late fees and library fines. The office also makes available general information about the College and its activities such as musical and dramatic presentations, lecture series and academic programs. Further information may be obtained from the Office of Academic Planning.

## **Degree Completion Programs**

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes.

Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, child development, criminal justice, history, liberal studies, nursing and sociology. Also available is upper-division course work for the social sciences major with options in administration, history, psychology and sociology; the psychology option is concentrated in the area of counseling. At the graduate level, master's degree programs are available in administration, education and psychology.

16 Students who wish to undertake a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the College in the usual manner. (Persons with limited study time should note that a single late-day course constitutes one-third of a full load.)

## **Composition of the Student Body**

The student body, as at most urban campuses, is extremely diverse. Most students are under 24 years of age; but because of the large number of mature adult students, especially in the late-day classes, the average student age is 27. Nearly half of the students are married, a majority work at least part-time and many are graduates of nearby community colleges. Most students commute to the campus, but the College does have a fine residential complex on campus.

## **International Programs**

An overseas study program is offered by The California State University and Colleges International Programs. Students may enroll for a full academic year simultaneously at their home campus, where they earn academic credit and maintain campus residency, and at a distinguished foreign university or a special program center.

Cooperating universities abroad include the University of Provence, France; the University of Heidelberg, Germany; the University of Florence, Italy; the Universidad Ibero-Americana, Mexico; the University of Uppsala, Sweden; the University of Madrid and the University of Granada, Spain; Tel Aviv University and the Hebrew University of

Jerusalem, Israel; and Waseda University, Japan. In the United Kingdom, cooperating universities, which may vary from year to year, include Dundee, Leicester, London, Oxford, Liverpool, Lampeter and Sheffield. In addition, California State University and Colleges students may attend a special program in Taiwan, Republic of China, or an architectural program in Copenhagen, Denmark.

Eligibility is limited to students who will have upper-division or graduate standing during their year of participation, who have a 2.5 overall grade-point average, who show ability to adapt to a new environment, and who, in the cases of France, Germany, Mexico and Spain, are proficient in the language of instruction at the foreign university. Selection is made by a faculty committee on the student's home campus and by a statewide faculty committee.

The International Programs are supported by state funds to the extent that such money would have been expended had the student continued to study in California. Students assume costs for pre-departure orientation, insurance, transportation, housing and meals. Home campus registration fees, tuition on the home campus for out-of-state students (if the student is not a California resident) and personal incidental expenses or vacation travel costs while abroad are also paid for by the student. The Office of International Programs collects and administers funds for those items which the program must arrange or can negotiate more effectively: typically, home campus fees, orientation costs, insurance, outbound transportation and housing in some centers.

Students accepted in the International Programs may apply for any financial aid available at their home campus, except work-study.

Applications for the 1975-76 academic year must be submitted before February 14, 1975 (except for the United Kingdom where the deadline is January 7, 1975). Applicants are notified of acceptance by April 1, 1975.

Detailed information may be obtained from Dr. Mireille Rydell on campus or by writing to The California State University and Colleges International Programs, 5670 Wilshire Boulevard, Los Angeles, California 90036.

### **College Foundation**

The Foundation of the California State College, San Bernardino, a California non-profit corporation, was established in 1962 for the purpose of promoting and assisting the educational services of the College. The Foundation Board of Trustees establishes policies for the administration of scholarship and loan funds, federal research grants and the operations of the Commons and Bookstore.













## STUDENT LIFE

### Housing

Since its opening in 1972, Serrano Village, the College's on-campus residential facility, has become a focal point of student life. Social as well as educational activities are organized by the Village residents with the assistance of the housing staff, making the Village a center for living and learning with other students.

The Village is composed of eight attractive redwood houses. Each house has a main lounge, recreation room, kitchenette, laundry-work-room, sun deck and patio. Both single and double rooms are available. Rooms are arranged in suites so that no more than 10 students share a living room, a study room and bathroom facilities.

The Village has both indoor and outdoor recreational facilities. The indoor area contains pool tables, a ping-pong table, mail boxes and a conversational area. The outdoor recreational area contains a barbeque, patio, volleyball court, ping-pong table, paddle tennis court, sun deck and a swimming pool.

Food service is provided for all Village residents at the Commons which is adjacent to Serrano Village.

The cost for on-campus housing, including meals, is approximately \$1100 a year for a double room and \$1250 a year for a single room. Convenient payment options are available.

As a service to students, listings of available off-campus apartments, rooms and homes are kept in the Housing Office. The College does not inspect, supervise or approve any off-campus housing.

Any student needing information about housing, either on-campus or off-campus, should contact the Housing Office.

### Activities

Recognizing the diverse interests, backgrounds, schedules and life-styles of today's student, the College and its student organizations strive to provide a rich program of activities. These include fall orientation for new students, Friday night film series, rock concerts, choral concerts, guest lecture series, small group parties, dances and drama productions.

The College encourages and aids formation of organizations which add to the educational opportunities of students. Some of these organizations involve students, faculty and staff working together in professional, recreational, educational, service, religious and cultural activities. Recognized groups have full use of College facilities in planning their programs.

All students are members of the Associated Student Body, which is governed by an executive branch (ASB Cabinet) and a legislative branch

(ASB Senate). In addition to participating in student government, students have the opportunity to serve on many college committees.

During this academic year, construction of a student union building will begin. The new facility will house the ASB offices as well as provide a center for student activities.

The Activities Office is available to help coordinate all extra-curricular activities as well as facilitate new programs. All students are encouraged to stop by the Activities Office to express their ideas and interests concerning campus activities.

### **Intramural Program**

All currently enrolled students, skilled or beginner, are eligible and encouraged to participate in the intramural sports program, which provides organized opportunities for vigorous competitive activities.

Students, faculty and other campus community members join in leagues, tournaments and competitions conducted in badminton, basketball, bowling, flag football, golf, handball, paddleball, softball, swimming, tennis, table tennis and volleyball. Additional activities will be offered to meet varying student interests.

Specific information on the intramural program is available from the Intramural Office or the Physical Education and Recreation Department Office.

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### **Recreation**

The physical education facilities, playing courts and swimming pool are usually open seven days a week for recreational enjoyment. All students are encouraged to make use of the gymnasium, courts, playing fields, swimming pool and weight room as long as there is no conflict with classes or other scheduled College events. Also, recreational equipment for use on or off campus can be checked out from the Department of Physical Education and Recreation, subject to College regulations.

Since the campus is located only about 45 minutes from mountains, beaches and desert, students have a unique opportunity to explore a variety of recreational activities. Because of student interest in skiing, tobogganing and scuba diving, the Associated Student Body has provided equipment which may be checked out for use in these leisure time activities. Student organizations and the Department of Physical Education and Recreation offer a variety of programs that provide an opportunity to become acquainted with these recreational areas.

Questions relating to recreational use of campus facilities or scheduling of facilities for special club or campus organizational use should be directed to the Physical Education and Recreation Office.

### **Career Planning and Placement**

Services of the Career Planning and Placement Office are available to all students of the College. Emphasis is on preparing one's self for employment after graduation. Services include career exploration seminars and materials, advisement on employment and salary trends,



counseling about personal satisfaction in career employment, and placement services for graduating seniors and graduate students. In addition, the Placement Office assists enrolled students who are seeking part-time and vacation employment.

The Placement Office serves as a repository for career placement files for the College's qualified degree and credential candidates who register for placement service.

### **Financial Aid**

The Financial Aid Office administers a variety of programs to assist qualified students. Sources of aid include the federally sponsored basic and supplementary educational opportunity grants, national direct student loans and the college work-study program. Federally insured student loans are also available. Short-term loans are available for financial crises which require funds rapidly. The office also administers state grants for Educational Opportunity Program students and a federal grant program for qualified employees of law enforcement agencies (LEEP). Nursing scholarships and loans may be available by the 1974-75 academic year.

For a student interested in working part-time, on or off campus, assistance in obtaining a job is available through the Financial Aid Office.

April 15 is an important date for students wishing to apply for scholarships and financial aid. All applications must be completed and in the Financial Aid Office by this date. Applicants are required to submit a copy of the student's or parent's most recent federal income tax return and the financial need analysis obtained through the College Scholarship Service. Necessary forms can be obtained from high schools, community colleges or the College.

*Scholarships.* Generally, scholarships are awarded on the basis of financial need and academic ability. Students must maintain a 3.0 (B) grade-point average. A number of scholarships are available to qualified freshmen on a renewable basis. To qualify, an applicant must have an academic grade average of 3.5 or better.

*College Scholarships.* The College awards a small number of scholarships each year to continuing students. The scholarships are sponsored by the Foundation of California State College, San Bernardino and are made possible by the generosity of individuals and organizations in local communities. The award amounts vary and are typically about \$300.

*Sponsored Scholarships and Awards.* Special scholarships and awards are available to new and continuing students and are given on the same basis as college scholarships. Interested students may contact the Financial Aid Office for special eligibility requirements for the following: Cal State Faculty Wives Club Scholarship, Alfred F. and Chella D. Moore Scholarship Fund, PTA Scholarship, Riverside Foundation Scholarship.

*Leslie I. Harris Memorial Scholarship.* A \$500 four-year renewable scholarship is awarded from the Leslie I. Harris Memorial fund, administered by the College Foundation.



*California State Scholarships, Graduate Fellowships and College Opportunity Grants.* Students apply directly to the California State Scholarship and Loan Commission for these state-sponsored awards which cover the expense of required fees. Application blanks and full information on these awards are available at high schools, community colleges and California State College, San Bernardino.

*Alan Pattee Scholarship (children of deceased peace officers or firemen).* Surviving children of California peace officers or firemen killed in the line of duty are not charged fees or tuition of any kind while enrolled at any California State University or College, according to the Alan Pattee Scholarship Act and the Education Code, Section 23762. Students qualifying for these benefits are known as Alan Pattee Scholars.

Students with physical, emotional or other disabilities which handicap them vocationally may be eligible for the services of the State Department of Rehabilitation, including vocational counseling and guidance, training, payment of books, fees and tuition, and job placement. Under certain circumstances, they may also qualify for help with medical needs, living expenses and transportation. A representative from the Department of Rehabilitation visits the campus regularly.

### **Counseling, Testing and Tutoring**

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The Counseling and Testing Center aids students in developing their personal resources and in making full use of the opportunities for growth during their college years. The services of the Center are available to all students in need of professional psychological assistance in educational, vocational or personal matters. The Center has available a variety of psychological tests and reading improvement and study skills programs to assist students.

All psychological counseling is completely confidential. Information about a student's use of the Center is not released to anyone without the written consent of the student.

The Counseling and Testing Center aids foreign students with academic and personal adjustment and with immigration requirements.

Services of the center are offered to students at no charge.

The center also administers the college entrance test of the American College Testing program (ACT) and graduate record examinations. There is a charge for the tests but not for the services of the center in giving them. Information and applications for other nationally administered tests used for college or graduate school entrance also are available from the center.

### **Educational Opportunity Program**

The Educational Opportunity Program is designed to provide educational opportunities and services for disadvantaged and/or culturally different students. These services include the identification, selection, counseling and retention of students who would not normally acquire a college education because of academic, ethnic, financial or motivational barriers.

EOP gives each student in its program individual attention. It also uses knowledge of a student's aspirations to assist him in realizing his full educational potential.

The services offered by the Educational Opportunity Program include: orientation, tutoring, workshops in basic skills, counseling and recruitment.

### **Upward Bound Program**

The Upward Bound Program is a pre-college preparatory program designed to identify and assist minority and low income high school students who demonstrate a potential to succeed in college.

Summer and academic year instructional programs are held in basic skills with tutorial and counseling assistance given to each student. The program also assists students desiring to continue their education by facilitating their admission into college and providing pre-counseling and orientation.

Presently, the Upward Bound Program is working with six local high schools: Colton, San Bernardino, Pacific, Cajon, San Geronimo and Eisenhower.

### **Student Health Center**

The Student Health Center provides all services normally administered in a physician's office including lab and x-ray, minor surgery and physiotherapy. Every student is automatically covered by an insurance plan (provided by the College) which covers 24-hour emergency care at any facility and ambulance charges.

Additional insurance which will cover students and dependents is available at student rates. Students not already protected by an insurance program are urged to consider this supplementary plan. A brochure describing the coverage is given to each student at registration or may be picked up at the Student Health Center.

A co-operative plan with local pharmacies enables students to receive prescription medication at reduced rates.

In addition to the normal daytime hours, the Health Center is open several evenings per week.

Students planning to enroll at the College should submit health information forms before registration.

### **College Police**

The College Police Department is available to protect and serve the College community. The department is staffed with trained professional police officers who provide 24-hour, seven-day-a-week police and fire protection for the College community. Each policeman is a sworn peace officer for the State of California and is responsible for preserving the peace, protecting life and property, preventing crime and enforcing vehicle regulations.

In the event of automobile battery trouble or if there is a need to contact a service station because of mechanical problems, the College Police can assist.

### **Dean of Students**

The Dean of Students office offers general information regarding the campus and help with student problems. If a student is uncertain where to go for information, this office can be a starting point.

### **Alumni Association**

All graduates of the College are eligible to join and participate in the activities of the California State College, San Bernardino Alumni Association.

The purpose of this non-profit association is to: assist alumni in continued cultural and educational development, further the community interests of the College, establish mutually beneficial relationships between the College and its alumni, and promote the educational goals of the College. Additional information may be obtained from the Associate Dean of Students, Placement and Financial Aid.

### **The Commons**

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The Commons, one of the social centers of the campus, serves residential and commuter students, faculty and staff. Attractive landscaping and an uncluttered view of the mountains plus the inviting decor of the two-level building provide a pleasant atmosphere for eating and relaxing.

Indoor and outdoor dining areas are provided on both levels, with a generous recreation area on the ground level.

### **Bookstore**

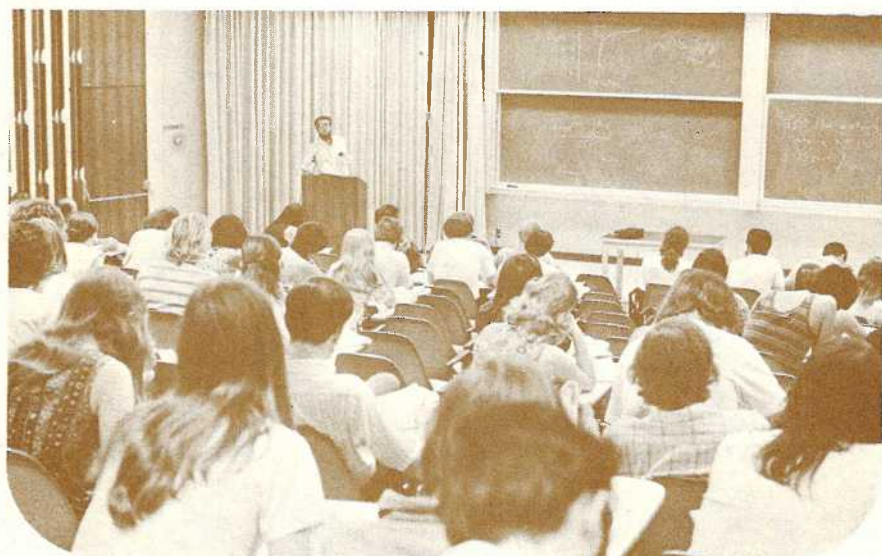
Students are able to purchase or order books and supplies needed for classes from the on-campus bookstore, owned and operated by the College Foundation. The bookstore is a non-profit operation, with proceeds used to further the educational aims of the College.

### **Student Responsibility**

Students at the College are subject to all federal, state and local laws as are other citizens. Of particular importance are regulations established by the State of California through its Education Code. In addition, Board of Trustees and local College regulations directly affect student life on campus. Pertinent portions of these documents are made available to students at registration; complete files are available at all times in the Dean of Students office. Students are expected to be responsible for their actions and to abide by established policies and regulations.









## ADMISSION TO THE COLLEGE

Requirements for admission to the California State College, San Bernardino are in accordance with Title 5, Chapter I, Subchapter 3, of the California Administrative Code. A prospective applicant who is unsure of his status under these requirements is encouraged to consult a high school or college counselor or the Admissions Office. Applications may be obtained from the admissions office at any of the campuses of The California State University and Colleges or at any California high school or community college.

A student who is admitted to the College for a given term but who does not register in that term must file a new application form and \$20 application fee when he again seeks admission and must meet the then current admission requirements.

### **Undergraduate Application Procedures**

Prospective undergraduates, whether applying for part-time or full-time programs of study, in day or evening classes, must file a complete application including all the required forms and fees as described in the application booklet. The \$20 non-refundable application fee should be in the form of a check or money order payable to The California State University and Colleges.

Undergraduate applicants may file only at their first choice campus. Alternate choice campuses and majors may be indicated on the application, but an applicant should list as alternate campuses only those campuses of The California State University and Colleges that he will attend if his first choice campus cannot accommodate him. Generally, alternate degree majors will be considered at the first choice campus before an application is redirected to an alternate choice campus. Applicants will be considered automatically at the alternate choice campus if the first choice campus cannot accommodate them. Transcripts and other supporting documents should not be submitted until requested by the campus.

### **Category Quotas and Systemwide Impacted Programs**

Application category quotas have been established by some campuses, in some majors, where the number of applicants is expected to exceed campus resources. All applications received in the initial filing period will receive equal consideration for such categories. Certain undergraduate programs (architecture, natural resources, nursing and physical therapy) are impacted throughout the 19-campus system. Applicants to such programs are expected to meet supplementary admission criteria

for admission to these programs. Applicants will be sent further information by the campuses about the supplementary criteria to be used.

### **Post-Baccalaureate Application Procedures**

All applicants for any type of post-baccalaureate status (e.g., master's degrees, credentials and courses for professional growth) must file a complete application within the appropriate filing period. Candidates for second baccalaureate degrees should apply as undergraduate degree applicants. A complete application for post-baccalaureate status includes all of the materials required for undergraduate applicants plus the supplementary graduate admissions application. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to submit an application and the \$20 non-refundable fee.

Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternative campuses or later changes of campus choice will be minimal. If a post-baccalaureate applicant wishes to be assured of initial consideration by more than one campus, he must submit a separate application (including fee) to each.

### **Application Filing Periods**

<b>30</b>	<i>Term</i>	<i>Initial filing period</i>	<i>Extended filing period</i>
	Summer	the previous February	March until filled
	Fall	the previous November	December until filled
	Winter	the previous June	July until filled
	Spring	the previous August	September until filled

All applications postmarked or received during the initial filing period will be given equal consideration within established enrollment categories and quotas. There is no advantage in filing before the initial filing period, as applications may be returned, causing a delay in processing. With the exception of the impacted undergraduate program areas (architecture, natural resources, nursing and physical therapy), most campuses will be accepting applications well into the extended filing periods until quotas are filled.

### **Space Reservations**

Applicants who can be accommodated within enrollment quotas will receive a space reservation. Although a space reservation is not a statement of admission, it is a commitment by the College to admit the student once eligibility has been determined. The space reservation directs the student to arrange to have appropriate records forwarded promptly to the Office of Admissions. Applicants should not request that any records be forwarded until they have received a space reservation notice.

### **Hardship Petitions**

Each college has established procedures to consider qualified applicants who would be faced with an extreme hardship if not admitted.

Prospective hardship petitioners should contact the college regarding specific policies governing hardship admission.

### **Recommended High School Preparation**

Overall excellence of performance in high school subjects and evidence of academic potential provide the basis for admission to the College. While no specific course pattern is required, the applicant, to be properly prepared to undertake a full program of studies, is strongly encouraged to include the following subjects in his high school program:

1. College preparatory English.
2. Foreign language.
3. College preparatory mathematics.
4. College preparatory laboratory science.
5. College preparatory history and/or social science.
6. Study in speech, music, art, and other subjects contributing to a strong academic background.

### **Undergraduate Admission Requirements**

First-time freshman eligibility is governed by an eligibility index. The index is computed using the high school grade-point average on all course work completed in the last three years of high school, exclusive of physical education and military science; and the ACT composite or the SAT total score. The table of grade-point averages, test scores and the equation by which the index is computed is reproduced on Page 212. Results of either the CEEB Scholastic Aptitude Test (SAT) or the American College Testing Program examination (ACT) are acceptable in establishing eligibility.

Registration forms and dates for either test may be obtained from school or college counselors, from the addresses below, or from the campus testing offices. For either test, submit the registration form and fee at least one month prior to the test date.

ACT  
American College Testing Program  
Registration Unit, P.O. Box 168  
Iowa City, Iowa 52240

SAT  
College Entrance Examination Board  
P.O. Box 1025  
Berkeley, CA 94770

#### *First-Time Freshmen (California high school graduates and residents)*

An applicant who is a graduate of a California high school or a legal resident for tuition purposes must have an eligibility index which places him among the upper one-third of California high school graduates. The minimum acceptable index for applicants using the SAT score is 3072; using the ACT score, 741.

#### *First-Time Freshmen (high school graduates from other states and U.S. possessions)*

The admissions requirements for non-resident applicants are more restrictive than those for California residents. An applicant who is a



non-resident for tuition purposes and is a graduate of a high school outside California must have an eligibility index which places him among the upper one-sixth of California high school graduates. The minimum acceptable index for non-resident applicants using the SAT score is 3402; using the ACT score, 826.

*First-Time Freshmen (graduates of secondary schools in foreign countries)*

An applicant who is a graduate of a secondary school in a foreign country or who has equivalent preparation in a foreign country may be admitted as a first-time freshman if his preparation and ability are such that, in the judgment of the appropriate campus authority, the probability of his academic success is equivalent to that of eligible California high school graduates.

*First-Time Freshmen (high school non-graduates)*

An applicant who is over 18 years of age, but has not graduated from high school, will be considered for admission only when preparation in all other ways is such that the campus believes promise of academic success is equivalent to that of eligible California high school graduates.

*Undergraduate Transfers (resident and non-resident)*

Beginning fall term 1974, transfer eligibility is based on transferable college units attempted, rather than on all college units attempted. The California community college transfer should consult his college counselor for information on transferability of courses. An applicant in good standing at the last college attended may be admitted as an undergraduate transfer if he meets either of the following requirements:

1. He was eligible for admission in freshman standing and has earned an average grade of "C" (2.0) or better in all transferable college units attempted.
2. He has completed at least 56 transferable semester units or 84 transferable quarter units with an average grade of "C" (2.0) or better if a California resident. Non-residents must have a G.P.A. of 2.4 or better.

*International (foreign) Students*

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State College, San Bernardino.

An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL).

This test is administered in most foreign countries and test scores must be received by the College before admission to the College can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A.

Arrangements for housing should be completed before the student's arrival on the campus. Detailed information regarding housing may be obtained from the Director of Housing, California State College, San Bernardino. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State College, San Bernardino the student should obtain an appointment as early as possible with the foreign student advisor.

### **Returning Students**

Students in good standing may be readmitted to the College after an absence of one term by filing a registration packet code sheet. The application and fee of \$20 is required if the student was not enrolled in any of the three terms (excluding summer session) prior to the term for which he is seeking admission or if he was enrolled in another institution during his absence from the California State College, San Bernardino.

### **High School Students**

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. Courses appropriate for high school seniors are scheduled at hours which will facilitate their attendance. A brochure describing the program is available from the Office of Admissions and Records.

### **Other Applicants**

An applicant not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the College. Permission is granted only by special action of the College.

### **Transfer of Credit**

A maximum of 70 semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the College. No upper-division credit may be allowed for courses taken in a community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.

The Office of Admissions and Records will evaluate previous college work to determine its applicability to the requirements of the College.

All degree and credential candidates will be issued a credit summary, indicating requirements which remain unfilled. Once issued to a student, the credit summary remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. Students will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

Credit for work completed at institutions of recognized accreditation will be accepted toward the satisfaction of degree requirements at the College within limitations of residence and major requirements, community college transfer maximums, and course applicability.

### **Advanced Placement for Entering Students**

The College grants credit toward its undergraduate degrees for successful completion of examinations of the advanced placement program of the College Entrance Examination Board. Students who present scores of three or better will be granted ten quarter units of college credit. For information on taking advanced placement examinations, students should consult their high school counselors.

College credit is also awarded to students who present appropriate scores on the College Level Examination Program general examination in the areas of social sciences, mathematics, natural science and humanities. Credit is also awarded for examinations in certain subjects. A list of the subjects for which credit can be awarded is available in the Office of Admissions.

### **Credit for Extension and Correspondence Courses**

Up to 36 quarter units (24 semester units) of extension credit may be applied toward a degree. No credit so earned may be used to satisfy the College residence requirement, except in the case of those courses specifically designated for an external degree program.

Only those units will be accepted for credit which are acceptable toward a degree or credential at the institution offering the courses.

### **Credit for Military Service**

The College grants nine quarter units of lower-division undergraduate credit to veterans with a minimum of one year of active duty in the armed forces of the United States. This credit is applied as electives and may not apply toward the requirements in general education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. This credit is allowed on the basis of recommendations of the Commission on Accreditation of Service Experiences of the American Council on Education.

### **Admission to Teaching Credential Programs**

Admission to the College as a student does not constitute admission to a teaching credential program. Students who intend to work toward credentials should make application to the School of Education of the College.

### **Admission as an Auditor**

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Admissions Office. Auditors must pay the same fees as would be charged if the courses were taken for credit. Enrollment as an auditor is subject to the approval of the instructor. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for courses audited will not be subsequently granted on the basis of the audit. Transcripts are not issued for students enrolled as auditors only.

Permission to register as an auditor is by appointment with the Registrar after the second day of registration.

### **Admission to Summer Session**

Students interested in attending summer session only do not need to file an application for admission to the College. Instructions for applying for summer session only are included in the Summer Session Bulletin. Attendance at summer session does not automatically constitute admission to the College for ensuing regular terms.

### **Readmission of Previously Disqualified Students**

After receiving notice of disqualification, a student may petition the Admissions and Academic Standards Committee for readmission to the College on probation. All petitions for readmission must be submitted to the Office of Admissions and Records one week before the first day of registration for the term in which the student would enroll.

### **Admission on Academic Probation**

An applicant with advanced undergraduate standing who does not meet the requirements stated above is eligible for admission on probation, if, in the opinion of the proper college authorities, he is likely to succeed in college.

Ordinarily, consideration for probationary admission is granted only to the mature applicant who, while his total college record does not meet the admission requirements, has demonstrated sufficient academic ability through college work recently completed elsewhere.

Applicants who are admitted with a grade-point deficiency are given probationary status and are subject to the probation and disqualification regulations as stated on page 51. A student admitted on probationary status may be restricted by his advisor to a limited program.



### **Determination of Residence**

The determination of whether a student qualifies as a "resident" for admission and tuition purposes is made by the College after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. A statement summarizing the principal rules regarding residency determination and their exceptions is included in the Appendix.









## GRADUATE DEGREE PROGRAMS

California State College, San Bernardino currently offers graduate programs culminating in the Master of Arts degrees in administration, education and psychology.

Graduate programs at the College are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding in a chosen discipline. The College provides for the part-time, as well as the full-time, student by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the regular quarters and the summer sessions.

The M.A. in education program offers options in elementary education, English and history (for secondary teachers) and school counseling. The program is open to teachers who hold valid teaching credentials or to applicants with teaching experience.

The M.A. in administration provides options in business administration and public administration. The program is open to all qualified students, regardless of undergraduate major. Students who do not have a background or formal education in public or business administration can complete designated prerequisite courses or demonstrate competence through examinations.

Under the M.A. in psychology program, students may select a general option or an option in counseling. Through an appropriate selection of courses within the general option, a student may concentrate in one of the following areas: social-community, developmental, perception, physiological-comparative, learning motivation and industrial-personnel.

Several new graduate programs are anticipated in the future, such as the M.A. in social science and the M.S. in biology, plus additional options in existing degree programs.

### **Admission to the College**

A student who has successfully completed a four-year college course and holds a baccalaureate degree from an accredited institution is eligible for admission to the College with graduate standing. He must satisfactorily meet the professional, personal, scholastic and other standards for graduate study. In addition, a student admitted with classified graduate status must show promise of success and fitness.

In seeking admission to the College, each applicant must submit to the Office of Admissions and Records an application for admission, a statement of residence form, a \$20 application fee and two official transcripts from each college or university attended.



Applicants for post-baccalaureate programs are limited to the choice of a single campus within the California State University and Colleges system on each application form. If an applicant for a graduate program wishes to be considered by more than one campus, he must submit a separate application and fee to each.

An applicant accepted for graduate study at the College must be admitted in one of the following categories:

*Unclassified Graduate Status.* A student who wishes to enroll in courses at the College with a personal growth objective but not necessarily with an objective of a graduate degree or teaching credential may be considered for admission with unclassified graduate standing when he meets requirements cited above.

Admission to the College with unclassified graduate standing does not constitute admission to graduate degree programs.

*Classified Graduate Status.* Classified status is awarded upon application when an applicant for admission to a degree program satisfactorily meets the general requirements and the criteria for specific programs, including such qualifying examinations as may be prescribed. No more than 20 units of credit earned in unclassified standing may be used to demonstrate fitness to complete the program or may be counted toward meeting requirements for a graduate degree. Such units will be accepted only upon approval of the graduate advisor assigned to the student.

Only students who continue to demonstrate a satisfactory level of scholastic competence and fitness, as determined by appropriate College authorities, shall be eligible to continue in a graduate program. Students whose performance is judged to be unsatisfactory may be required to withdraw from all graduate degree programs offered by the College.

*Teaching Credential.* A student desiring to work toward a teaching credential at the College must first meet the general qualifications. After admission to the College, he must meet the particular requirements for participation and formal acceptance into the credential program as specified by the appropriate instructional area. A credential candidate must have maintained a minimum 2.5 grade-point average in undergraduate course work in his major field.

#### **Admission to the M.A. Program in Administration**

To be admitted as a classified graduate student in the administration program, a student must:

1. Possess a baccalaureate degree from an accredited college with a major in administration, business administration or public administration; or, a major in any academic discipline together with demonstrated competence in the following courses or their equivalents: Economics 100 and 102, or Economics 305; Mathematics 110; Social Sciences 210; Administration 301, 302, 303, 304 and 306;
2. Have a cumulative undergraduate grade-point average of 2.5 overall;
3. Complete the aptitude test of the Graduate Record Examination

(GRE) or the Admission Test for Graduate Study in Business (ATGSB) with an acceptable score. It is recommended that students planning a concentration in public administration take the GRE and students planning a concentration in business administration take the ATGSB. Tests should be completed as soon as possible; further information is available from the School of Administration or the Dean of Graduate Studies.

The competence cited in (1) above may be established by formal completion of course work, credit by examination or appropriate work experience. The student must petition the School of Administration for approval of work experience.

### **Admission to M.A. Program in Education**

In order to be admitted as a classified graduate student in the education program, a student must possess: a baccalaureate degree from an accredited college, a valid teaching credential or teaching experience and must have completed both the aptitude test and the advanced test in education of the Graduate Record Examination with acceptable scores and the advanced test in English or history, where applicable. A cumulative undergraduate grade-point average of 2.5 overall and 3.0 in course work in education is required for the elementary education option.

### **Admission to M.A. Program in Psychology**

In order to be admitted as a classified student in the psychology program, a student must:

1. Possess a baccalaureate degree with a major in psychology; or with any other undergraduate major, (a) score at least at the 50th percentile on the GRE advanced test in psychology or (b) satisfy the Graduate Admissions Committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. Have a cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
3. Submit to the department a brief statement describing his preparation for graduate study, goals of the graduate program and professional aspirations;
4. Provide for three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file.

### **Graduate Bulletin**

Complete details on requirements for admission to the existing programs, admission to candidacy and requirements for graduation are listed in the Graduate Bulletin, a separate publication available without charge from the Office of Academic Planning or any department offering a master's program. General information about graduate work at this College may be secured from the Office of Academic Planning. Specific details about a particular master's degree program are available from the department or school involved.





## FEE SCHEDULE

The regular fees of the College are given below. Students are required to pay registration fees at registration. Tuition is not charged to legal residents of California.

Checks will be accepted at registration only for the amount of fees due. The following fees are non-refundable: application and facilities fees.

The following reflects the fees and expenses for the quarter system:

*All students*

Application fee (non-refundable, payable by check or money order at time of applying).....	\$20.00
Materials and service fee:	
1-3.9 units .....	34.00
4-7.9 units .....	38.00
8-11.9 units .....	42.00
12 or more units .....	48.00
Facilities fee .....	2.00
Associated Students fee: one full-term course or less .....	3.00
more than one full-term course .....	6.50
Student identification card fee .....	1.00
Student Union fee .....	6.50

*Non-residents (foreign and domestic)*

Tuition: less than 15 units, per unit or fraction .....	29.00
15 or more units, maximum .....	433.00

(Note: Tuition is in addition to other fees required of all students. The total non-resident tuition charged shall not exceed \$1,300 per academic year.)

## Residence halls (for academic year)

Room and board (14 meals per week), double room.....	1,100.00
Room and board (14 meals per week), single room.....	1,250.00

Summer session fee

Per quarter unit of credit	20.00
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### Special fees

Credential fee .....	20.00
Late registration .....	5.00
Failure to meet required appointment or time limit .....	2.00
Graduation fee .....	6.00
Parking fees (per quarter)	
First vehicle .....	10.00
Two-wheeled vehicle .....	2.50
Each alternate in addition to first vehicle .....	2.00
Summer session (six-week session) .....	6.00
Check returned for any cause .....	5.00
Transcript of academic record .....	1.00
Master's degree thesis.....	contact Office of Academic Planning

**NOTE:** Fees subject to change without advance notice.

No fees of any kind shall be required of or collected from those individuals who qualify for such exemption under the provisions of the Alan Pattee Scholarship Act.



## **Refund of Fees**

Students registered for credit or audit who change their program to a lesser number of units may not receive a refund of material and service fee.

However, upon a student's withdrawal from all classes, the material and service fee may be refunded if written application for refund, on forms provided by the Registrar, is submitted to the Bursar not later than 14 calendar days following the first day of classes. However, \$10 shall be retained to cover the cost of registration.

Non-resident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule:

100% refunded before or during the first week of instruction

75% refunded during the second week

50% refunded during the third week

25% refunded during the fourth week

Student Union and Associated Student Body fees are fully refundable during the first 14 calendar days of the quarter.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule:

Regular quarter: 66% refunded during the first 25 calendar days of the quarter; 33% refunded during the 26th through 50th calendar days; no refund after the 50th day.

Summer session: based on calendar days, commencing on the day instruction begins: 66% refunded during the first 10 days; 33% refunded during the 11th through 20th day; no refunds after the 21st day.

## **Estimated Costs per Quarter**

It is estimated that students pay about \$50 each quarter for books and \$64 for fees plus parking costs.

## **Debts Owed to the College**

If a student becomes indebted to the College, the College is authorized by Title 5 of the California Administrative Code to withhold "permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above" until the debt is paid.

Such debts might occur if a student fails to repay money borrowed from the College or to pay dormitory or library fees or for other services provided at his request.

Under these provisions, the College may deny permission to register or may withhold other services, such as grades and transcripts.

If a student feels that he does not owe all or part of a particular fee or charge, he should contact the College business office which will review the matter, including information the student may wish to present, and will advise the student of its conclusions.









## ACADEMIC REGULATIONS

All students who register at California State College, San Bernardino in resident study for either the fall, winter or spring quarter must first be admitted to the College by the Office of Admissions.

No student may attend classes until his registration has been completed.

Registration is complete only when official programs are properly filed and all fees are paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses entered on their official student assignment slips, except those courses they officially change by filing a change of assignment with the Office of the Registrar.

### Class Level of Students

Students are classified at the end of each quarter according to total earned credits accepted for transfer and/or completed at the California State College, San Bernardino as follows:

<i>Status</i>	<i>Units Earned</i>
Lower Division	
Freshman.....	0- 44.9 quarter units
Sophomore.....	45- 89.9 quarter units
Upper Division	
Junior.....	90-134.9 quarter units
Senior.....	135 quarter units or more
Graduate.....	Holding baccalaureate from an accredited college

### Advisory System

Every student is assigned a faculty member as an advisor upon entrance into the College. In general, the faculty advisor is in the area of the student's major interest. Other advisors are provided for students who have not yet chosen a major field of concentration.

In addition to such academic counseling, specialized counseling in vocational and personal matters is available in the Office of the Dean of Students.

### Academic Course Load: Undergraduates

The normal full-time course load is 15 quarter units. Students may carry up to 19 quarter units with the consent of their advisor.



A student may be granted permission to carry 20 or more quarter units upon submission of a course overload card to his school dean. Course overload cards and certifications of grade-point averages are available at the Records Office. Students are encouraged to petition for approval if their overall grade-point average is 3.0 or better and their grade-point average for the previous term is 3.0 or better.

### **Academic Course Load: Graduates**

The normal academic load for graduate students is 10 units per quarter. To enroll in more than 15 units in any one quarter, a student must have the written approval of his major advisor and the Dean of Graduate Studies. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances, should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly.

### **Course Load Planning**

Students, in planning their programs, should take care to observe Selective Service and Veterans Administration regulations concerning minimum academic loads for student deferments and veterans' benefits. Selective Service deferment requests should be made during or shortly after registration week at the beginning of each academic year or the first quarter in which the student enrolls.

Veterans' benefit forms (Veterans Administration certificate of eligibility) should be on file in the Office of the Registrar prior to registration in the first quarter in which the student enrolls. For more specific information, consult the Office of the Registrar.

### **Accelerated Progress**

Students are encouraged to accelerate progress toward completion of their objectives through a program of independent study, summer course enrollment and registration for additional course credits.

Credit by examination procedures permit students to demonstrate their mastery of the content of local courses, courses offered through the Advanced Placement Program and the College Level Examination Program.

In some instances, registration in summer sessions permits the completion of one full quarter, 15 units, of degree applicable work.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the section on Academic Course Loads, Page 47.

### **Credit by Examination**

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the ideas and concepts of a course can accelerate progress through the college. Students must register for the examination in the office of the school or department concerned during the

first five days of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The examination must be completed within the first four weeks of the term. A limited number of courses may be designated by a school as inappropriate to be challenged by examination.

No fee is charged for these examinations. A student who passes an examination is given credit for that course toward graduation, provided that this does not duplicate credit counted for his admission to the College. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by persons (a) who are in residence, or (b) who are candidates for degrees at this College and need no more than four full-term courses to complete the requirements for their degrees.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the school or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Credit for no more than 40 quarter units may be received through such examinations.
5. A student may repeat an examination for credit only upon approval of the Dean of Academic Planning.
6. Credit by examination may not be used to fulfill the minimum residence requirement.
7. The course must be offered during the term in which the examination is taken.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit by examination cannot be earned during the summer sessions.

### **Concurrent Enrollment**

Procedures have been established whereby a student in good academic standing at the California State College, San Bernardino who has completed at least 18 quarter units of work at the College and who is eligible to register as a continuing student for the immediately subsequent term may enroll concurrently at another campus of the California State University and Colleges System. The procedure enables a student to attend another campus within the system, on a term by term basis, without submitting the formal application for admission form and paying the \$20 application fee. For information regarding the procedure, contact the Office of the Registrar.

For concurrent enrollment at an institution other than those within the California State University and Colleges System, approval of the Dean of Academic Planning is required.

### **Class Schedule**

An official class schedule, prepared each quarter by the College, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each quarter and may be purchased at the College Bookstore.

### **Late Registration**

The last day for late registration each term will be announced in the class schedule. The College calendar, pages 4 and 5, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$5 late registration fee is required.

### **Adding Courses**

Students may enroll for credit in courses until the last day to add classes. This date is indicated for each term of the academic year in the College calendar.

## **50 Auditing Courses**

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to the same fee structure as credit students and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes and is approved by the instructor and the advisor. A student registered for credit may change his status to audit with the approval of his advisor and the instructor concerned and within the prescribed time limits for dropping a course.

Forms for such changes may be secured from the Office of the Registrar. Registration is by appointment with the registrar.

### **Class Attendance**

Class attendance is expected of all students enrolled at the College. The instructor in each course sets the standard he expects his students to meet in this regard. If a student does not attend a class during the first three days it meets, the instructor may, at his discretion, drop the student from the class.

When a student is absent from classes, it is his responsibility to inform his instructors of the reason for his absence and to arrange to make up missed class work and assignments. If a student expects to be

absent from his classes for two weeks or more, he should notify the Office of the Dean of Students. Should the absence be for the remainder of the term, withdrawal from the College should be initiated by the student in the Office of the Registrar. (See section on withdrawal from college.) Where such absence or withdrawal is caused by illness, the student must report to the Health Center upon return to the College.

### **Leave of Absence**

A student may petition to the Dean of Academic Planning for a leave of absence from the College for any reason and, if the petition is approved, may, upon his return, continue under the catalog requirements which applied to his enrollment prior to the absence. Except in the case of military service, a leave of absence may be granted for a maximum of one year.

Illness and military service are routinely approved reasons for a leave of absence. An undergraduate student may also petition for such a leave of absence for purposes of undertaking a program elsewhere which will be consistent with the objectives of California State College, San Bernardino and which is not available on this campus.

Students obtaining a leave of absence after the last day to withdraw without penalty will receive grades of W in all courses.

The granting of a leave of absence does not constitute a waiver of the requirement for applying for readmission and paying the application fee.

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### **Withdrawal from a Class or the College**

Each student is assigned a grade for every course appearing on his official student assignment.

If a student withdraws officially from the College or from a class by the end of the third week of class (see College calendar for exact date), the course is not recorded on the permanent record.

Withdrawal after the third week, and prior to the last three weeks of instruction, is permissible only for serious and compelling reasons. Permission to withdraw during this time period must be obtained from the instructor and the school dean.

Withdrawal will not be permitted during the final three weeks of instruction except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete grade is not practicable. Withdrawal during this period requires the approval of the instructor, the school dean and the Dean of Academic Planning.

A grade of W will be assigned for approved withdrawals occurring after the third week of instruction.

A student who withdraws from all classes in which he is enrolled must officially withdraw from the College.

### **Final Examinations**

Written examinations of two hours duration are held at the close of each term. In courses extending over more than one term, the examina-



tion in the concluding term may also cover work done in the preceding term or terms. The schedule for final examinations is established by the registrar. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the Dean of Academic Planning. Permission to take a final examination with a different section in the same course may be granted by the Dean of Academic Planning with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

### Final Grade Report

Final grade reports are mailed to students within two weeks after the last day of each quarter.

### Grades

The grade symbols used at the College are as follows:

<i>Grade Symbol</i>	<i>Performance Level</i>	<i>Grade Points per Quarter Hour</i>	<i>Progress Points per Quarter Hour</i>
A	Excellent	4	4
B	Good	3	3
C	Satisfactory	2	2
D	Marginal	1	1
F	Failing	0	0
CR	Credit (A, B, C)		2
NC	No Credit (D, F)		0

All courses, except those specifically designated by the College to be taken Credit/No Credit, will be graded on the A, B, C, D or F basis.

The following administrative grades carry no grade points or progress points and are, therefore, not used to determine a student's grade-point average or progress toward a degree. However, it should be pointed out that the "Incomplete" will be counted as an "F" if not removed within one calendar year from the date it was assigned.

AU Audit

I Incomplete

SP Satisfactory Progress

W Withdrawal

Grade-point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this College are used to compute the resident grade-point average.

### Expanded Grade Symbol Definitions

CR (*Credit*): A satisfactory or better level of performance, equivalent to the grade of A, B or C, has been demonstrated in meeting course objective. (For graduate students, equivalent to grade of A or B.)

**NC (No Credit):** Performance at an unsatisfactory or failing level, equivalent to a grade of D or F. (For graduate students, equivalent to the grade of C, D or F.) Does not award credit for the course.

**AU (Audit):** Course participation as an auditor. Course credit cannot be awarded.

**I (Incomplete):** An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being counted as equivalent to an F (or an NC) for grade-point average and progress point computation.

**SP (Satisfactory Progress):** The SP symbol is used in connection with courses which extend beyond one academic term. The symbol indicates that work in progress has been evaluated as satisfactory to date but that the assignment of a grade must await the completion of additional course work. Cumulative enrollment in units attempted may not exceed the total number applicable to the student's educational objective. All work is to be completed within one calendar year of the date of first enrollment and a final grade will be assigned to all segments of the course on the basis of overall quality. Extension of this time period requires prior authorization by the Dean of Academic Planning.

**W (Withdrawal):** This symbol indicates that the student dropped the course. It carries no connotation of quality of performance and is not used in calculating grade-point average or progress points.

### **Policy on Credit/No Credit Grading**

All courses, except those specifically designated to be taken Credit/No Credit, are graded on the A, B, C, D or F basis. Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The non-traditional Credit/No Credit grading allows faculty to award credit for satisfactory performance in an activity, rather than to try to assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded Credit/No Credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded Credit/No Credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a Credit/No Credit basis may,

at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 36 quarter units of work graded Credit/No Credit in satisfaction of the total units required in the student's baccalaureate degree program at the California State College, San Bernardino. This number includes any combination of units graded Credit/No Credit earned at the California State College, San Bernardino and any other institution or institutions.

Course grades of credit received under a Credit-by-Exam Program are exempt from the 36 unit limitation.

### **Scholarship Standards for Graduate Students**

Scholarship standards for unclassified graduate students and graduate students seeking a credential only are the same as for undergraduate students.

For scholarship standards for classified graduate students, see the Graduate Bulletin.

### **Scholarship Standards for Undergraduates**

For purposes of determining a student's eligibility to remain at the College, both quality of performance and progress toward his objective shall be considered. Such eligibility shall be determined by use of grade-points, grade-point average and progress points. The progress point scale shall be based on the grade-point computation for letter grades consistent with the definitions established in Section 40104 and augmented by the assignment of two points per unit for the CR grade and no points per unit for the NC grade.

- (a) An undergraduate student shall be subject to probation if, in any academic term, he either fails to earn twice as many progress points as all units attempted or he fails to maintain a cumulative grade-point average of at least 2.0 (grade of C on a five-point scale);
- (b) An undergraduate student shall be subject to disqualification if while on probation he fails to earn twice as many progress points as all units attempted, or if his cumulative grade-point balance displays a deficiency in excess of the number permitted for his class level pursuant to deficiency levels established by the Chancellor;

These levels are as follows:

1. Lower-division student (fewer than 90 quarter units of college credit), 22.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
2. Junior (90 to 134.9 quarter units of college work), 13.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
3. Senior (135 or more quarter units of college work), 9 or more grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;

- (c) An undergraduate student who is not on probation may be disqualified if at any time his cumulative grade-point average falls below 1.0 (grade of D on a five-point scale) and, in the opinion of the appropriate campus authority, it is unlikely in light of the student's overall educational record, that the resultant grade-point deficiency will be removed in subsequent terms.

A student disqualified for scholarship deficiency may not enroll in any regular session without permission from the Admissions and Academic Standards Committee, and may be denied admission to other educational programs operated or sponsored by the College.

### **Administrative Academic Disqualification**

An undergraduate or graduate student may also be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative grade-point average or progress points. Such actions shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

### **Repeat of Courses**

Upon repeating any course, the grade earned in the last enrollment will be used exclusively in determining the units attempted and grade points earned for that particular course. The units attempted and grade points earned for the first enrollment will be discounted either on request of the student or when the graduation check is performed. Courses may be repeated more than once only by prior permission of the Dean of Academic Planning. After a student has registered at this College, courses may not be repeated at any other institution to remove a grade earned at this College or elsewhere.

### **Plagiarism**

Plagiarism is the presentation as one's own the ideas and writings of another. Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

### **Election of Graduation Requirements**

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum in the College, in any of the California community colleges or in any combination of California community colleges and this College, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect either at the time of his entering the curriculum or at the time of his graduation from the College, except that substitutions for discontinued courses may be authorized or required by the proper college authorities.



## Post-baccalaureate Credit for Senior Students

Senior students who need fewer than 15 quarter units to graduate may be permitted to enroll for post-baccalaureate credit during the final term of their senior year. Post-baccalaureate credit is used to signify courses taken after the baccalaureate degree and does not necessarily mean graduate credit, i.e. credit applicable to an advanced degree. A petition form for this purpose is available in the Office of Admissions and Records.

## Summer Enrollment at Other Institutions

In instances where there might be a question about the acceptability of course work taken at another institution in the summer, students are advised to consult the department offering the equivalent course at this College.

## Information for Issuance of Transcripts

All transcripts will be complete as of the date of issuance showing all work attempted at the California State College, San Bernardino.

Transcripts which include final grades for that quarter will be sent three weeks after the last day of the quarter.

Only work taken at the California State College, San Bernardino will show on the transcript. Copies of transcripts from other institutions are not included.

Transcripts are issued at a cost of \$1.00 per copy, payable in advance.

## Selective Service Student Certificates

The college will provide information to the Selective Service System only upon written request of the student. The Office of the Registrar will submit this information to the Selective Service System on its Student Certificate SSS Form 109.

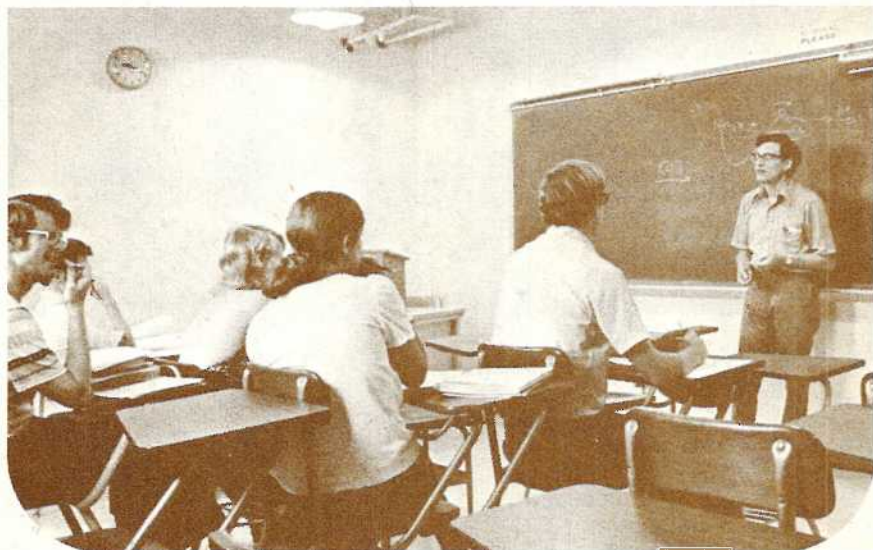
It is the student's responsibility to notify his local Selective Service Board or request the College to notify it if he changes his study load, withdraws, graduates, is disqualified, or for any other reason changes his educational status in such a way as to affect his Selective Service status.

## Information for Veterans

Students who plan to attend the College under the Veterans Readjustment Act of 1972 must present to the Registrar a valid certificate of eligibility in duplicate authorizing training at the California State College, San Bernardino.

The College will certify the following course loads to the Veterans Administration:

<i>Undergraduates</i>	<i>Graduates</i>
Full time .....12 quarter units	Full time .....10 or more quarter units
$\frac{3}{4}$ time .....9-11 quarter units	$\frac{3}{4}$ time .....7.5-9.5 quarter units
$\frac{1}{2}$ time .....6-8 quarter units	$\frac{1}{2}$ time .....5-7 quarter units
Less than half time.....See Registrar	









## UNDERGRADUATE DEGREE REQUIREMENTS

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 186 quarter units of college credit.
2. Complete 14 full-term designated courses (70 quarter units) in General Education distributed in the following manner:

**A. Basic Studies: two courses**

One course each from two of the four following areas:

- a. English composition (English 101)
- b. Mathematics (Mathematics 100, 101, 110, 200)
- c. Oral communication (Drama 120)
- d. Philosophy [Logic] (Philosophy 105)

**B. Humanities: three courses**

One course in the arts:

- a. Art (Art 200)
- b. Drama (Drama 250)
- c. Music (Music 180)

Two courses in letters:

- a. Foreign studies (French, German, Russian or Spanish 101–102–103\*; Spanish 450; Foreign Languages 450)
- b. Literature (English 110, 111, 170)
- c. Philosophy (Philosophy 190)

**C. Natural Sciences: two courses**

One course from the life sciences:

- a. Biology (Biology 100, 202)
- b. Health Science (Health Science 120)

One course from the physical sciences:

- a. Astronomy (Natural Sciences 100)
- b. Chemistry (Chemistry 100, 205, 215)
- c. Earth Science (Earth Science 101)
- d. Physics (Physics 100, 111, 211)

**D. Social Sciences: three courses**

(Social Sciences 140, 142, 144, 146, 150, 155, 160)

**E. Lower-division General Education electives: two courses**

To be chosen from the designated courses in two of the four major categories (A, B, C, D) above.

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\* Credit toward the General Education requirement will be awarded only upon completion of two introductory courses in one foreign language.



*A wide range of courses may be readily transferred from community colleges to satisfy each of the lower-division General Education requirements (categories A through E, above).*

**F. Upper-division General Education requirement: two courses**

To be chosen from among the designated upper-division General Education lecture courses in two of three areas: Humanities (330, 333, 350, 353, 470); Natural Sciences (300, 310, 350); Social Sciences (300, 312, 321). Also applicable to this requirement are Interdisciplinary Studies 320 and 388.

3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this College.
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade-point average of 2.0 (C) or better in all units in the major.
7. Earn a grade-point average of 2.0 (C) or better in all units attempted, and in all units attempted at the College.
8. Complete six quarter units of physical education activity courses.
9. Be recommended for graduation by the faculty of the College.

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A candidate for graduation must request a graduation requirement check at the Office of Admissions and Records by the dates indicated in the College calendar. No graduation requirement check should be requested unless and until a senior has completed 150 quarter units, including current work in progress. If a candidate does not complete the requirements in the term indicated, he must request a second graduation requirement check, indicating the new date at which he expects to graduate.

### **History, Constitution, Government Requirement**

California law prescribes, as a requirement for graduation, that each student demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in United States history, constitution and American ideals may be met by completing Social Sciences 146, American Civilization. The requirement in California state and local government may be met by completing Social Sciences 150, Contemporary Civilization I. Selected courses offered by the School of Social Sciences also may satisfy the requirements. The opportunity to meet the California state and local government requirement by passing an optional examination is given to students who transfer from outside the state. Information may be obtained from either the Admissions Office or the Social Sciences School office.

Certain high school courses may satisfy these requirements. Details are available from the Admissions office.

### **Second Bachelor's Degree Requirements**

A student who holds a bachelor's degree from the California State College, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree:

1. General education requirements as stated in the appropriate catalog;
2. Requirements of the major involved;
3. A minimum of 36 quarter units of residence work at CSCSB after completion of the first bachelor's degree; and
4. Approval of the faculty of the College.

This policy does not negate the possibility of a student's graduating with a dual major.

### **College Residence Requirement for Graduation**

A minimum of 45 quarter units must be completed at this College. At least 20 quarter units must be completed among the last 30 quarter units counted toward the degree.

Extension credit or credit by examination may not be used to fulfill the minimum residence requirement.

### **College Honors**

*College Honors at Commencement.* To be considered for College Honors at commencement, a student must have completed a minimum of 45 units of work at California State College, San Bernardino in courses for which letter grades (A, B, C and D) were received.

Highest Honors: an overall undergraduate GPA of 3.9 or above.

High Honors: an overall undergraduate GPA of 3.75 or above.

Honors: an overall undergraduate GPA of 3.5 or above.

*Dean's List.* A full-time undergraduate student who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

*Departmental Honors.* Individual departments may grant departmental honors, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in Biology, Chemistry, Economics, Mathematics, Political Science, Psychology and Sociology.

### **Preparation for Professional Schools**

The plan of undergraduate study at the California State College, San Bernardino emphasizes a liberal education in preparing for professional or vocational specialization.

Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by

acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either kind of emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an appropriate pre-professional advisor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

### **Pre-Professional Program: Medicine, Veterinary Medicine, Dentistry, Pharmacy**

The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a pre-professional student as long as certain basic subject areas are included in his program. For specific requirements of professional schools the student is urged to consult such special sources as "Medical School Admission Requirements," (a publication of the Association of American Medical Colleges) or a pre-professional advisor in the School of Natural Sciences.

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In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry, one year of general biology, with additional course work in developmental biology and/or comparative anatomy and genetics, and one year of physics. Other courses, e.g., mathematics through calculus and physical chemistry, are often recommended as well.

Since pre-professional programs in dentistry and medicine place heavy emphasis in biology and chemistry, these are the two majors most often elected by pre-professional students. A pre-professional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect Mathematics 200 and Biology 342. A pre-professional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect Biology 342, 423 and 440.

The science and mathematics components of pre-professional programs in veterinary medicine are quite similar to those for medicine. However, it is usually possible to gain admission to a school of veterinary medicine upon completion of two years of undergraduate work at a liberal arts college.

Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required as well.

### **Pre-Professional Program: Law**

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "pre-law" major required, or in most instances recommended, since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study.

Several broad objectives of pre-legal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political and economic values, institutions, problems and frames of reference; and an ability for creative, innovative, critical and analytical thinking.

For these reasons, every pre-law student should carefully choose, with the aid of appropriate advisors, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (administration, economics, English, history, philosophy, political science and sociology to name a few). For additional information, the student should consult with the pre-law advisor and should be familiar with the Pre-Law Handbook.

For additional information, a student should see the bulletins or catalogs of various law schools or the official "Pre-Law Handbook," current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.







## CONTINUING EDUCATION

The term Continuing Education denotes a variety of courses, programs, activities and events through which the services and resources of the College are made available to a broad, general audience and are brought to bear on immediate issues and interests of the larger community of which the College is a part.

Responding to diverse educational needs of residents of its two-county service area, the College undertakes to develop opportunities for those seeking personal growth and fulfillment, for those pursuing professional renewal and advancement, for others aspiring to resume an education that has been interrupted or is incomplete, and for still others whose personal experience or community situation dictates an organized effort to understand and affect the conditions of modern urban life.

### Extension Study and Credits

The Extension program provides opportunities for college-level study, primarily at off-campus locations, at times and places most convenient to varied groups of part-time students.

Extension offerings include courses selected from the established curriculum and new courses designed to meet expressed needs and desires of specific groups and communities.

The College has available a plan which also opens scores of classes offered in the regular residence program of the College to Extension students, answering the needs of those who wish to take a specific course or two, but do not want to matriculate to do so. These registrations are handled in the Office of Continuing Education and are accommodated on an individual, space-available basis.

A maximum of 36 quarter units of credit earned through Extension registration in upper-division courses from the regular curriculum may be applied to a degree program. Credits earned in courses offered only through Extension and numbered in the 800-series are ordinarily not degree-applicable though they may satisfy salary hurdle, credential, re-licensure and other, similar requirements.

### Summer Sessions

Summer sessions afford both regular and nonmatriculated students opportunity to pursue undergraduate or graduate study in virtually all of the College's academic majors and in professional programs.

There is no prior application required nor are there formal procedures for admission to summer study. Course credits earned in the summer are accepted in degree programs, however, when students subsequently make successful application for admission and matriculate in the College.

Announcement of the summer programs is made in early spring each year. The calendar and schedule of classes may be obtained without charge from the Office of Continuing Education.

### **External Degree Programs**

Recent establishment in the California State University and Colleges of procedures for developing, implementing and evaluating External Degree programs means that as need and demand warrant, complete upper-division curricula can be offered at sites distant from the College.

The guidelines imply careful articulation with community colleges in planning degree programs in a limited number of major fields. Classes of at least 25 to 35 students are essential since External Degree Programs are required to be self-supporting from fees, as Extension long has been. For approved programs, usual residence requirements are waived enabling students who complete the prescribed sequence of courses to earn the baccalaureate degree wholly through off-campus study.

Coordination of the work of implementing a College-wide responsibility to develop external programs appropriate to the service area is a function of the Office of Continuing Education, while "delivery" of approved programs is to be effected through its established Extension routines.

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### **Community Programs**

The Office of Continuing Education with its adjunct Community Programs and Management Centers provides for continuing liaison among campus and community groups and organizations with common interests and concerns.

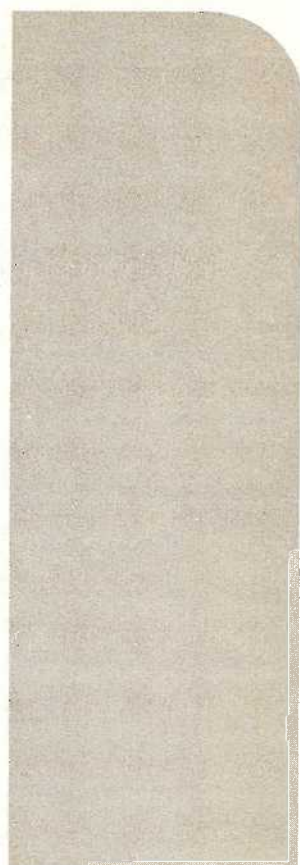
It assists community groups and agencies in identifying and utilizing campus resources, particularly the expertise of faculty members. It assists students and faculty in efforts both to give service to and to utilize the community as an instructional resource.

The office also initiates, co-sponsors or coordinates a variety of conferences, workshops and seminars each year on behalf of various professional and special interest groups. Assistance can be given, or full responsibility taken, for developing conference programs as well as for making necessary physical arrangements on or off-campus.











## ACADEMIC PROGRAM

### Schools of the College

The academic program of the College is offered through five Schools—Administration, Education, Humanities, Natural Sciences and Social Sciences—and the independent Department of Physical Education and Recreation. Three of the five schools are organized into departments, listed below:

<i>Humanities</i>	<i>Natural Sciences</i>	<i>Social Sciences</i>
Art	Biology	Anthropology
Drama	Chemistry	Economics
English	Health Science	Geography
Foreign Languages	Mathematics	History
Music	Nursing	Political Science
Philosophy	Physics	Psychology
		Sociology

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Degree programs are offered by departments, schools and interdisciplinary committees. A complete listing of the degrees available at the College may be found on Pages 12 and 13.

### Course Numbering System

- |             |   |
|-------------|---|
| 1- 99       | Non-credit courses  |
| 100-299     | Lower-division courses designed primarily for freshmen and sophomores   |
| 300-499     | Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program. |
| 500-599     | Courses for upper-division, fifth-year credential and graduate students.  |
| 600-699     | Courses for graduate students only  |
| X800-X899   | Courses offered through extension only  |
| IP100-IP699 | Courses taken by students in the International Programs   |
| e           | Credit earned in a continuing education program for residence credit pursuant to an External Degree Program                             |

### **Course Credits**

All courses at California State College, San Bernardino carry five quarter units of credit, unless otherwise indicated in the course description in this Bulletin. For purposes of comparison with other colleges, a five quarter-hour course is equivalent to a  $3\frac{1}{2}$  semester-hour course.

### **Major Fields of Study**

Work in a major field of study is designed to afford each student the opportunity to engage in intensive study of a discipline.

Not later than the beginning of the junior year, each student shall select one or more specialized areas in which he wishes to concentrate. Thereafter his program will be supervised by an advisor from his chosen major department.

Major programs are available in 1974-75 in the fields listed on Page 12.

<p>NOTE: All information and announcements herein are subject to change without notice. All students should consult the Class Schedule issued before each term to determine the courses available that term.</p>
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## ADMINISTRATION

The School of Administration offers a major in Administration designed to prepare students for careers in business, government service, institutions and related fields.

The Administration curriculum reflects the view that the concepts, philosophies and methodologies of modern administrative science, though traditionally studied in the context of business enterprise, have applicability to large-scale organizations generally. This curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management.

Areas of commonality among various public and private systems of institutional management constitute the core material of the Administration major, while variations which distinguish management practices in different functional areas are subjects for optional specialization.

In addition to the various careers for which the bachelor's degree is appropriate preparation, the program provides a well-rounded foundation for graduate studies leading to such professional degrees as master of business administration, master of public administration and master of hospital administration, or for the study of law.

Requirements for the major: Economics 100 and 102, Mathematics 110, Social Sciences 210 or Mathematics 150, and the core courses: Administration 301, 302, 303, 304 and 306, and six additional courses in Administration. Included among these six must be all of those courses listed in any one of the following concentrations:

Management: Administration 451, 455, 460

Quantitative Methods: Administration 360, 400, 465

Accounting and Finance: Administration 340, 342, 430

Marketing: Administration 405, 410, 440

Public Administration: Administration 380 (or Political Science 380), Administration 455, Administration 475 (or Economics 475), Administration 480

The remaining courses may be selected from the concentrations, the Administration electives or, with the approval of a departmental advisor, from courses offered by related departments.

Transfer students may receive credit for two lower-division courses toward completion of the elective requirements.

Requirements for the minor in Administration: Economics 100 and 102 plus any four of the core courses required for the major.

During 1974-75, a bachelor of science degree, another concentration (human resources and manpower planning) and additional courses in accounting will be added.



## Administration

- 301. MANAGEMENT PRACTICES.** Fundamentals of management including studies in planning, organizing, directing, leading and controlling business activity. Concepts and practices are developed through case studies of management situations.
- 302. HUMAN BEHAVIOR IN ORGANIZATIONS.** Behavior of people in relation to managerial environment and the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management.
- 303. FINANCIAL THEORY.** Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. *Prerequisite: Administration 306.*
- 304. QUANTITATIVE ANALYSIS FOR MANAGEMENT.** Introduction to mathematical tools used in administrative problem analysis; includes topics in set theory, functional analysis, linear algebra, interest and annuities. *Prerequisite: Consent of instructor.*
- 306. CONCEPTS OF ACCOUNTING.** Development and use of basic accounting information for management analysis, decision-making, planning and control relating to operations.
- 330. LEGAL ENVIRONMENT OF BUSINESS.** Study of our legal system, nature and source of law as applied to business activity, statutes and significant cases involving business policies, effect of public policies on private enterprise system.
- 340. MANAGERIAL ACCOUNTING.** Accounting information systems used by management. *Prerequisite: Administration 306.*
- 342. ADVANCED MANAGERIAL ACCOUNTING.** Continuation of Administration 340 with emphasis on development of sophisticated analytical accounting models. *Prerequisite: Administration 340.*
- 350. ADMINISTRATIVE COMMUNICATIONS.** Techniques and methods of analysis; practical exercises in oral and written communications for administrative situations.
- 355. MANAGEMENT OF ADMINISTRATIVE CONFLICT.** Emphasis on development of conflict, theories of administrative conflict and method of resolving such conflict.
- 360. STATISTICAL ANALYSIS FOR MANAGEMENT.** Application of probabilistic models and statistical decision theory to decision-making within the enterprise; techniques for optimization of administrative decisions. *Prerequisites: Administration 304 and Social Sciences 210.*
- 370. FINANCIAL ACCOUNTING.** Accounting theory and its application. Topic areas include financial statement analysis, funds and cash flows, income measurement, price level adjustments and valuations, and business combinations and consolidated statements. Emphasis is on accounting for the corporate form of organization. *Prerequisite: Administration 306.*
- 380. SURVEY OF PUBLIC ADMINISTRATION.** An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems.
- 400. QUANTITATIVE DECISION METHODS.** Quantitative methods of analysis used in solution of administrative problems, including linear programming and calculus applications. *Prerequisite: Administration 304.*

- 405. MARKETING MANAGEMENT.** Marketing functions including products, channels, pricing and promotion.
- 410. CONSUMER BEHAVIOR.** Nature and determinants of consumer attitudes, consumption and purchasing behavior. *Prerequisite: Administration 405.*
- 415. ANALYSIS OF BUSINESS CONDITIONS.** Measurement and analysis of general business conditions; role of economic, industrial and corporate forecasting in managerial planning. *Prerequisites: Administration 304, Economics 102 and Social Sciences 210 or Mathematics 150.*
- 420. COMPUTER MANAGEMENT.** Non-technical approach to techniques, equipment and a programming language; programming, debugging and running management programs. *Prerequisite: Administration 304.*
- 426. FEDERAL TAXATION ADMINISTRATION.** Analysis of federal taxes with emphasis on research, contemporary interpretations and business policy formulation. *Prerequisites: Administration 306 and senior standing.*
- 430. FINANCIAL POLICIES AND SYSTEMS.** Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. *Prerequisite: Administration 303.*
- 435. INVESTMENT ANALYSIS.** Analysis and forecasting of security markets, industry studies, portfolio construction. *Prerequisite: Administration 303.*
- 438. AUDITING.** Function of the auditor, viewed from the perspective of professional ethics, SEC standards of reporting, auditor's legal liabilities. Techniques include internal control, sampling, standards of statement presentation, use of the computer as an auditing tool. Case studies emphasize design of audit programs, working papers and audit reports. *Prerequisites: Administration 306 and 370.*
- 440. MARKETING RESEARCH.** Analysis of markets, survey methodology, sample design, quantitative techniques in market research projects. *Prerequisites: Administration 304 and 405, Social Sciences 210.*
- 451. ORGANIZATION AND MANAGEMENT THEORY.** Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment.
- 455. INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT.** Policies relating to human resources; manpower planning, personnel selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. *Prerequisite: Administration 301.*
- 460. PRODUCTION PLANNING AND CONTROL.** Analysis of production resources; measurement and evaluation of man-machine systems; forecasting, planning and scheduling; quality and quantity control.
- 465. OPERATIONS RESEARCH.** Principles of management science in executive decision-making. Algebraic and geometric representations of optimization models in management. Problems in production, marketing, finance, purchasing and personnel administration. *Prerequisite: Administration 400.*
- 470. MANAGEMENT OF INTERNATIONAL OPERATIONS.** Cultural, economic, legal, political and institutional factors influencing international operations. Organizational, marketing, financial, production and labor problems, policies and practices in the international arena.
- 475. PUBLIC FINANCE.** Fiscal theory and policy, theories and incidence of taxation, problems of national debt management, government spending and budgeting.

## Administration

**480. ORGANIZATIONAL PROBLEMS IN PUBLIC ADMINISTRATION.** Administrative and management problems as they exist within public organizations and agencies. *Prerequisites: Administration 380, Political Science 380, or consent of instructor.*

**499. METHODS AND MATERIALS IN THE TEACHING OF BUSINESS.** May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

**530. BUSINESS AND SOCIETY.** Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems.

**550. MANAGEMENT AND ORGANIZATIONAL DEVELOPMENT.** Approaches to studying management development from the dual perspectives of effecting changes in organization systems and individual behavior. *Prerequisites: Administration 301 and 302, or equivalents, and senior standing.*

**560. FOUNDATIONS OF PUBLIC ADMINISTRATION.** Advanced concepts of public administration, its role in society, management of public business, survey of the major functional fields and selected problems. *Prerequisites: senior standing and consent of instructor.*

**562. PUBLIC PERSONNEL ADMINISTRATION.** Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. *Prerequisites: Administration 560 and senior standing.*

**565. PROBLEMS IN PUBLIC FINANCE.** Problems and concepts of financial management in public administration including: revenue sources, tax administration, debt management, the budgetary cycle and budget types. *Prerequisites: Administration 475 (or Economics 475), Administration 560, or consent of instructor; and senior standing.*

**566. URBAN ADMINISTRATION.** Administrative problems and characteristics of public management in the urban area. *Prerequisites: senior standing and Administration 560.*

**575. INTERNSHIP IN ADMINISTRATION.** Supervised work and study in private or public organizations. May be repeated once for credit. *Prerequisite: consent of instructor and department.*

**590. SEMINAR IN ADMINISTRATION.** An intensive study of some phase of administration to be developed by the instructor. May be repeated for credit as topics change.

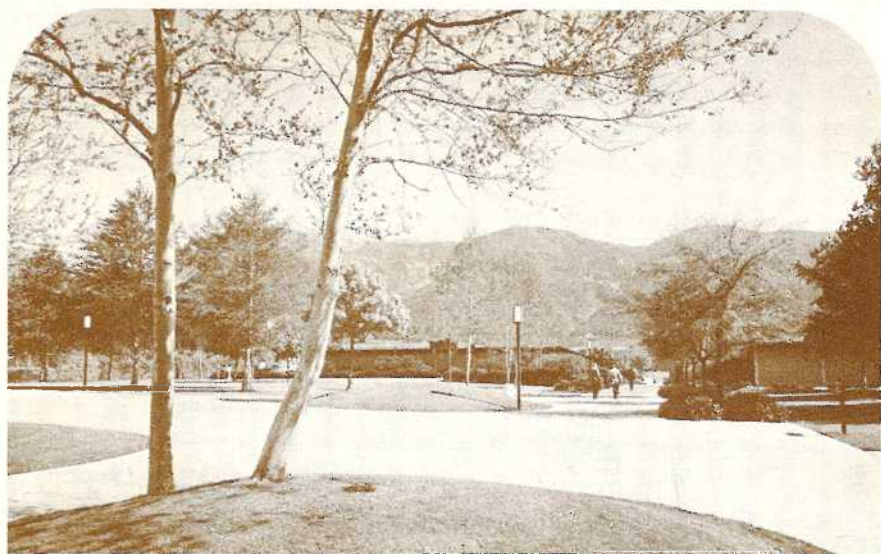
**595. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisites: Department approval of written proposal of project and consent of instructor. (Credit to be arranged: 2 to 5 units.)*

**601. ORGANIZATION THEORY AND BEHAVIOR.** A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. *Prerequisites: Administration 301, 302, or equivalent.*

**602. FINANCIAL PLANNING AND CONTROL.** Current developments and controversies in accounting and financial controls for government and industry. Analysis of financial management in the context of recent technological, sociological and environmental changes. *Prerequisites: Administration 303, 306 or equivalents.*

- 603. RESEARCH METHODS IN ADMINISTRATION.** Principles of research design, development of research instruments, data accumulation and analysis of significant data. Critique of sample research studies from the literature and a research study conducted by the student. *Prerequisite: Social Sciences 210 or Mathematics 150 or equivalent.*
- 604. QUANTITATIVE METHODS IN ADMINISTRATION.** Concepts and techniques used for quantitative analysis in management. Topics in matrix algebra, linear programming, game theory and regression analysis for model building and problem solving. *Prerequisites: Social Sciences 210 or Mathematics 150 and Administration 304 or equivalents.*
- 610. DECISION THEORY FOR MANAGEMENT.** Behavioral and quantitative approaches to administrative decision making. *Prerequisites: Administration 601 and 604.*
- 620. MARKETING PLANNING AND CONTROL.** Problem solving and decision making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. *Prerequisites: Economics 101 and 102, or equivalents, or Economics 305.*
- 630. PRODUCTION SYSTEMS DEVELOPMENT.** Study of the production function (both products and services) in management and its importance as a subsystem of administrative operations. *Prerequisite: Administration 604.*
- 640. INDUSTRIAL RELATIONS AND PERSONNEL PROBLEMS.** An intensive study of specific areas and problems in the administration of business personnel systems and of labor-management relations. *Prerequisite: Administration 601.*
- 642. COMMUNICATION AND INTERPERSONAL PROCESSES.** A study of the various theories of interpersonal processes and communication as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. *Prerequisite: Administration 601.*
- 650. MANAGEMENT INFORMATION AND CONTROL SYSTEMS.** The study and design of management information systems, their implementation and the integration of their operations within the organization. *Prerequisites: Administration 301, 304 and 602, or equivalents.*
- 652. ACCOUNTING THEORY AND RESEARCH.** Development of accounting theory; accounting standards, doctrines and conventions; current problems; survey of current literature in accounting. *Prerequisites: Administration 602 and 603.*
- 660. ADMINISTRATIVE SYSTEMS ANALYSIS.** A theoretical and applied understanding of the systems approach as used in public administration planning, analysis and design. *Prerequisite: Administration 602.*
- 670. LOCAL ADMINISTRATION.** City, county, school district and special district administration, including management of the following functions: police, fire, health, education, welfare, probation, public works, environment, tax and personnel. *Prerequisites: Administration 560 and 601.*





## ANTHROPOLOGY

The study of Anthropology promotes an understanding of self and all mankind by exploring man's nature at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Man's physical and cultural evolution, the distribution and significance of racial differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, archeology and pre-history, and linguistics.

Requirements for the major: a minimum of eight upper-division courses in Anthropology including: Anthropology 300 and 511; two courses from Anthropology 301, 305, 310, 315, 351, 352, 354, 356, 360, 361, 451; three courses from Anthropology 455, 456, 457, 460, 465, 470, 475, 480, 490, 491, 492, 493, 550, 551, 590, 595; one additional upper-division course in Anthropology (or a related field as approved by advisor).

Anthropology 100 and 200 or an equivalent background are ordinarily required for enrollment in upper-division Anthropology courses.

Requirements for a minor in Anthropology: Anthropology 100, 200 and four upper-division courses selected in consultation with an advisor.

**100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION.** Man's biological and social evolution through time.

**200. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY.** The basic concepts and approaches used by anthropologists in the study of peoples and societies.

**300. ARCHEOLOGY.** History of archeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory.

**301. OLD WORLD PREHISTORY.** The prehistory and protohistory of Eurasia and Africa, emphasizing the growth of culture and the origin and spread of civilization.

**305. NEW WORLD PREHISTORY.** The prehistory of North, Middle and South America, emphasizing the peopling of the New World, the earliest American Indian cultures and later regional developments.

**310. ANCIENT CIVILIZATIONS OF THE NEW WORLD.** The origin, spread and decline of pre-Columbian civilizations in the New World.

**315. SOUTHWESTERN ARCHEOLOGY.** The prehistoric cultures of the American Southwest, their origins, characteristics and relationships.

## Anthropology

**330. CROSS-CULTURAL CHILD-REARING PRACTICES.** Cross-cultural examination of child-raising practices from the perspective of major anthropological theories of personality formation and its relationship with culture.

### WORLD CULTURES (Anthropology 351-375)

Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general discussion of physical anthropology, language affiliations and culture, history of the area, the native populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

**351. INDIANS OF NORTH AMERICA.**

**352. INDIANS OF THE SOUTHWEST.**

**354. CULTURES OF MEXICO AND CENTRAL AMERICA.**

**356. CULTURES OF SOUTH AMERICA.**

**360. PEOPLES OF AUSTRALIA.**

**361. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA.**

**451. AMERICAN INDIANS AND WHITE SOCIETY.** The present position and problems of American Indians in the U.S. and the history of Indian-White relations. No prerequisite, although Anthropology 351, 470 or an American history course is recommended.

**455. ADVANCED PHYSICAL ANTHROPOLOGY: HUMAN VARIATION.** The processes of adaptive differentiation in man and the assessment of significant differences among human races; the influence of culture in microevolutionary phenomena and the analysis of blood groups and other gene distributions in modern populations. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

**456. ADVANCED PHYSICAL ANTHROPOLOGY: PRIMATE STUDIES.** Taxonomy and fossil record of the non-human primates. Primate behavior as a basis for the reconstruction of prehistoric human behavior. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

**457. ADVANCED PHYSICAL ANTHROPOLOGY: PALEOANTHROPOLOGY.** The analysis of the anatomical and behavioral evidence of fossil man and earlier hominid forms. Discussion of the problems involved in reconstructing the direction of human physical and cultural evolution. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

**460. LANGUAGE AND CULTURE.** Analysis of languages stressing the relationship of language to patterns of human behavior.

**465. PSYCHOLOGICAL ANTHROPOLOGY.** Cross-cultural comparisons of personality and its formation, stressing the mutual interrelationship of cultural, social and psychological factors in human behavior. *Prerequisite: Anthropology 200 or equivalent or consent of instructor.*

**470. CULTURE CHANGE AND DYNAMICS.** An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials.

**475. CULTURAL ECOLOGY.** An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches.

## Anthropology

- 480. MAGIC, RELIGION AND SCIENCE.** A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments.
- 490. SYSTEMS OF SOCIAL ORGANIZATION.** A comparative description and analysis of social integration in human societies.
- 491. POLITICAL ANTHROPOLOGY.** An examination of anthropological concepts relevant to comparative studies of traditional political systems and their relationships to other aspects of culture, with an emphasis on tribal and other non-industrial cultures.
- 492. ECONOMIC ANTHROPOLOGY.** An anthropological approach to the analysis of systems of production and exchange in non-industrial societies.
- 493. URBAN ANTHROPOLOGY.** Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization.
- 511. METHODS AND THEORY IN ANTHROPOLOGY.** An in-depth examination of the development and current status of major methodological and theoretical orientations in anthropology. *Prerequisite: senior or graduate standing or consent of instructor.*
- 550. FIELDWORK IN CULTURAL ANTHROPOLOGY.** Supervised design, execution and analysis of an ethnographic field project. *Prerequisite: consent of instructor.*
- 551. METHODS IN ARCHEOLOGY.** Application of the methods and techniques of archeology through survey, mapping, excavation, laboratory analysis and preparation of reports. Emphasis is on research design and interpretation; an independent project may be required. *Prerequisites: Anthropology 300 and consent of instructor.*
- 590. SEMINAR IN ANTHROPOLOGY.** Study of selected topics in anthropology. May be repeated for credit, with consent of instructor.
- 595. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units.)





The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Art Department.

A student may either major or minor in Art, and eventually chooses one or more specific areas of concentration. The choice is governed by the student's experiences with various media, concepts and techniques, but this is not a rigid choice as new interactions among these elements are constantly being developed.

Two programs are available for students working for the Bachelor of Arts degree in Art and two options are available for a minor in Art. The studio areas of concentration currently offered are: ceramics, crafts design, painting, printmaking and sculpture.

Requirements for the major (Plan I): Art 201, 202, 203, four courses in the history of art, two upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to teach at the secondary school level.

Requirements for the major (Plan II, single studio area of concentration): Art 201, 202, 203, five courses in the history of art, four upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies. Such students are strongly advised to take Art 210 and 211.

In addition to their courses in Art, students are urged to seek electives in related areas of creative expression. Suggested possibilities include acting, creative writing, music seminar in electronic composition.

Students in either plan interested in the history of art may use the three upper-division electives in Art in that area. Students contemplating graduate studies in art history are strongly advised to learn French or German.

Art majors under both plans are required in the senior year to arrange an exhibit or review of representative examples of studio work completed while in residence at this College.

Field trips are required in most art history courses and several studio courses as well. Also, in many courses students are required to pay for materials used.

Minor in studio art: Art 201, 202, 203; three courses in art history; and one upper-division studio course.

## Art

Minor in art history: seven courses in art history. With the advisor's approval up to two selected courses may be substituted from two of the following fields: anthropology, drama, music and philosophy. In most cases, students who have completed the minor in art history and four terms of a foreign language or equivalent proficiency can easily complete the requirements of a Humanities major as well.

**200. STUDIES IN ART.** Exploration of the form and content of art. Cannot be counted toward fulfillment of requirements in the major.

**201. FOUNDATION STUDIO IN ART.** The interaction of color and light complemented by the study of freehand drawing.

**202. FOUNDATION STUDIO IN ART.** The properties of human vision and their implications concerning the nature of the pictorial surface.

**203. FOUNDATION STUDIO IN ART.** The organization of three-dimensional phenomena.

*Art 201, 202 and 203 represent a foundation group that can be taken in any sequence. This group or its equivalent must be completed before enrollment in upper-division studio courses—with certain exceptions as noted in course descriptions.*

**204. DRAWING AND LIFE DRAWING.** Exploration in techniques of drawing for purposes of creative expression related to object and figure placement in space.

**210. WESTERN ART HISTORY I.** The history and development of styles and procedures in art from prehistoric times through the Middle Ages.

**211. WESTERN ART HISTORY II.** The history and development of styles and procedures in art from the proto-Renaissance period in Italy to the rise of French Impressionism.

**304. ADVANCED DRAWING AND LIFE DRAWING.** Further exploration in techniques of drawing for purposes of creative expression. *Prerequisite: Art 204 or consent of instructor.*

**311. ART OF THE UNITED STATES.** The development of American art from the Colonial period to 1950. Significant examples from the fields of architecture, sculpture, painting and the minor arts.

**312. MODERN ART, 1850 TO THE PRESENT.** The development and significance of contemporary art in the Western World.

**314. THE ART OF INDIGENOUS PEOPLES.** The art of the native cultures of North, Central and South America; the South Pacific; Africa.

**316. ARTS OF THE NEAR EAST.** History and development of the arts of the ancient Near East and Islam.

**317. ART OF THE FAR EAST I.** History and development of styles of art from prehistoric times in India, Ceylon, Central and Southeast Asia.

**318. ART OF THE FAR EAST II.** History and development of styles of art from prehistoric times in China, Korea and Japan.

**325. STUDIES IN MEXICAN AND CHICANO ART.** Topics in the painting, architecture, sculpture and pottery of Mexico from pre-Columbian times to the present day.

- 331. PAINTING I.** The pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. *Prerequisites: Art 201, 202 and 203.*
- 332. PAINTING II.** A more conceptual extension of the implications of scale in the formal functions of line, plane, color and light, pattern and edge. *Prerequisite: Art 331 or consent of instructor.*
- 333. PAINTING III.** Advanced work in painting. *Prerequisite: Art 332.*
- 340. SCULPTURE I.** Introduction to sculpture using a variety of materials, tools and processes. *Prerequisites: Art 201, 202 and 203.*
- 341. SCULPTURE II.** Continuation of Sculpture I. *Prerequisite: Art 340 or consent of instructor.*
- 342. SCULPTURE III.** Advanced work in sculpture. *Prerequisite: Art 341.*
- 354. CERAMICS I.** Procedures of hand building, throwing, slip casting and glazing as practiced by the studio potter and the ceramic sculptor. *Prerequisite: consent of instructor.*
- 355. CERAMICS II.** Continuation of Ceramics I including kiln management and the formulation of glazes and clay bodies. *Prerequisite: Art 203 or consent of instructor.*
- 356. CERAMICS III.** Advanced work in ceramics. *Prerequisite: Art 355.*
- 360. PRINTMAKING I.** Creative research into studio techniques in relief, intaglio, collographic, planographic and stencil processes. *Prerequisites: Art 201, 202 and 203.*
- 361. PRINTMAKING II.** Continuation of Art 360. *Prerequisite: Art 360 or consent of instructor.*
- 362. PRINTMAKING III.** Advanced work in printmaking. *Prerequisite: Art 361.*
- 370. CRAFTS DESIGN I.** Craft processes and techniques in the design and construction of objects in metal, wood, leather, fibres and plastics. *Prerequisite: Art 203 or equivalent.*
- 371. CRAFTS DESIGN II.** Craft processes and techniques in the design and construction of objects in metal, wood, leather, fibres and plastics. *Prerequisite: Art 370 or consent of instructor.*
- 372. CRAFTS DESIGN III.** Advanced work in crafts design. *Prerequisite: Art 371.*
- 373. WOODWORKING AND FURNITURE DESIGN.** Exploratory experiences in the use of hand and power tools in woodworking techniques for the fabrication and design of wood projects. *Prerequisites: Art 201, 202 and 203.*
- 395. ART IN THE CLASSROOM I.** Providing art experiences through the use of varied art media in the elementary school. May not be counted toward fulfilling requirements of courses in the major.
- 396. ART IN THE CLASSROOM II.** Providing art experiences through the use of varied art media in the elementary school. May not be counted toward fulfilling requirements of courses in the major. No prerequisite required.
- 410. STUDIES IN ART HISTORY.** Study in a selected period in the history of art. May be repeated for credit.



## Art

- 429. SPECIALIZED STUDIO PROJECTS.** Study and experimentation developed in consultation with the instructor from the student's individual abilities and needs. *Prerequisite: consent of instructor.*
- 482. STUDIO WORKSHOP.** Study and experimentation in a selected area of art. May be repeated for credit. *Prerequisites: Art 201, 202 and 203 or consent of instructor.* (Credit to be arranged: 2 to 5 units)
- 499. METHODS AND MATERIALS IN THE TEACHING OF ART.** A studio course dealing with media exploration, community resources, art classroom organization and contemporary art education philosophy. This course may not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing, and admission to the teacher credential program.*
- 510. COLLOQUIUM IN ART.** Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. *Prerequisite: consent of instructor.*

## **BILINGUAL/CROSS-CULTURAL STUDIES**

The courses listed below are intended to be used by students who wish to complete simultaneously the B.A. in Liberal Studies and the requirements for two credential programs: the multiple subjects credential with the bilingual/cross-cultural option and the bilingual/cross-cultural specialist credential. For further information concerning these credential programs, contact the School of Education.

**ART 325. STUDIES IN MEXICAN AND CHICANO ART.**

**EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO.**

**EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN.**

**FOREIGN LANGUAGES 450. LITERATURE IN TRANSLATION: MEXICAN.**

**HISTORY 390. HISTORY OF MEXICO.**

**HISTORY 391. CHICANO HISTORY.**

**HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY.**

**HUMANITIES 460. CULTURE STUDIES: MEXICO.**

**HUMANITIES 501. SEMINAR IN CHICANO STUDIES.**

**MUSIC 351. MEXICAN AND CHICANO MUSIC.**

**PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO.**

**POLITICAL SCIENCE 351. THE CHICANO AND POLITICS.**

**SOCIAL SCIENCES 220. INTRODUCTION TO CHICANO STUDIES.**

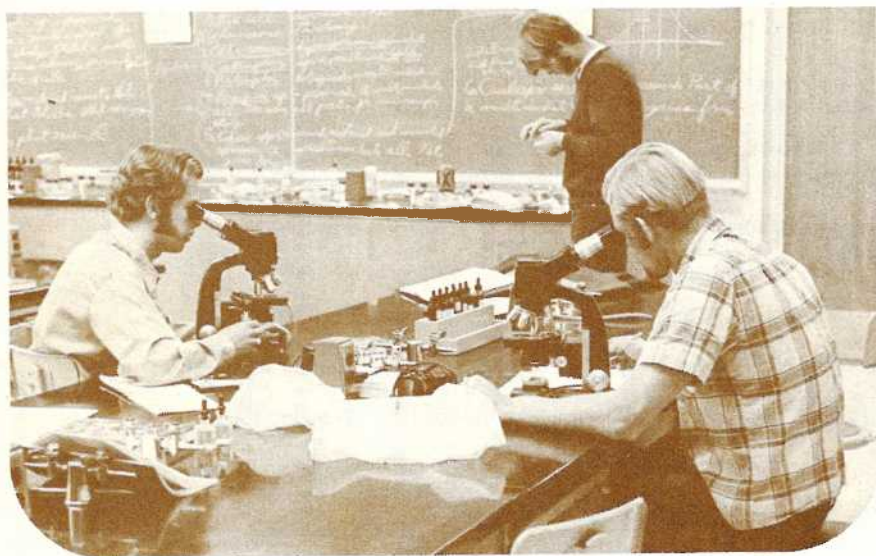
**SOCIOLOGY 342. THE CHICANO FAMILY.**

**SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES.**

**SPANISH 104. INTERMEDIATE SPANISH II.**

**SPANISH 302. ADVANCED GRAMMAR AND SYNTAX**

**SPANISH 440. MEXICAN LITERATURE.**



## BIOLOGY

The major in Biology emphasizes processes and structure and the concept that biological processes can be studied at different levels of organization. Viewed from another perspective, the major is a balanced blend of traditional and modern Biology, incorporating the important generalizations of traditional Biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in Biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program.

Many career opportunities are available to the student majoring in Biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine and graduate programs; and it also can serve for direct entry into public school teaching, medical technology and a variety of positions in industrial, research and governmental organizations.

Requirements for the bachelor of arts degree: Mathematics 101 or 150 or 200; Physics 111 and 112 or 211 and 212; Chemistry 215, 216, 225 and 226 or 325 and 326; Biology 200, 201, 202 and six upper-division courses in Biology (which may include Chemistry 436 and 437) totaling no less than 30 units.

Requirements for the bachelor of science degree: Mathematics 101 or 150 or 200; Physics 111 and 112 or 211 and 212; Chemistry 215, 216, 217, 225 and 226 or 325 and 326; Biology 200, 201, 202; four courses selected from Biology 400 (or Chemistry 437), 423, 424 or 431, 440, 450; and six upper-division courses in Biology (which may include Chemistry 436 and 437) totaling no less than 30 units.

All courses leading to either a B.A. or a B.S. are to be selected in consultation with a departmental advisor.

Requirements for a minor in Biology: Biology 200, 201, 202 and three additional upper-division courses in Biology totaling no less than 15 units; Chemistry 215 and 216; and one of the following courses: Physics 100, 111, 211, Mathematics 101, 150, 200.

In a number of courses, field trips are normal and frequent.

Pre-professional students of medicine or dentistry seeking a major in Biology should refer to Page 62 of this bulletin and consult with a departmental advisor.

*Departmental Honors:* Candidacy for departmental honors in Biology is voluntary. To be eligible a student must fulfill the following requirements: achieve a minimum GPA of 3.5 for all courses satisfying the requirements for the major (as defined above), take at least five courses



## Biology

in the major at CSCSB, complete satisfactorily a senior project and complete satisfactorily the departmental comprehensive examination. Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to the exceptional student who fails to meet the above requirements, but who has in the judgment of the department brought distinction upon himself and the department in some other appropriate manner.

**100. TOPICS IN BIOLOGY.** Major generalizations of biology with particular emphasis on man's interaction with the biosphere. Lecture and three hours of laboratory.

**200. BIOLOGY OF THE CELL.** Introduction to cellular structure and function. Lecture and three hours of laboratory. *Pre- or corequisite: Chemistry 215 or consent of instructor.*

**201. BIOLOGY OF ORGANISMS.** Introduction to the structural and functional attributes of organisms. Lecture and three hours of laboratory. *Prerequisite: Biology 200 or consent of instructor.*

**202. BIOLOGY OF POPULATIONS.** Introduction to the principles of ecology and evolution. Lecture and three hours of laboratory.

**220. PRINCIPLES OF MICROBIOLOGY.** Morphology, physiology and classification of bacteria, yeasts, molds, rickettsiae and viruses. Bacteriology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Lecture and six hours of laboratory. *Prerequisite: one lower-division Biology course. (6 units)*

**222. HUMAN ANATOMY AND PHYSIOLOGY.** Survey of structure and function of human organ systems with emphasis on homeostasis. May not be counted toward fulfilling requirements in the major. Lecture and three hours of laboratory. *Prerequisite: one lower-division Biology course.*

**313. HISTORY OF BIOLOGY.** Major developments in biological thought and their intellectual impact from the Greeks to the present. An elective course for non-majors as well as majors. Lecture only. *Prerequisite: one lower-division Biology course.* Recommended: Social Sciences 142 and 144.

**314. BIOLOGY OF HUMAN SEXUALITY.** Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, venereal disease, sexual intercourse and response. Lecture only. *Prerequisite: one lower-division Biology course.*

**315. INTRODUCTION TO HUMAN EMBRYOLOGY.** An introductory course in human development. Emphasis on normal developmental sequences from fertilization to birth and on factors which can modify these normal sequences. Lecture only. May not be counted toward major requirements in Biology. *Prerequisite: Biology 100.*

**316. GENETICS OF MAN.** Principles of heredity as they apply to man. Lecture only. May not be counted toward fulfilling requirements in the major by students already receiving credit for Biology 423. *Prerequisite: one lower-division course in Biology.*

- 319. LOCAL FLORA.** Identification of flora of the immediate San Bernardino area. Field collections, lecture and six hours of laboratory. May not be counted toward fulfilling requirements in the major by students already receiving credit for Biology 464. *Prerequisite: one lower-division Biology course.* (6 units)
- 321. EVOLUTION.** Darwin, the modern view of evolution and the implications of evolution in other disciplines. Lecture only. *Prerequisite: one lower-division Biology course.*
- 331. BIOLOGY OF THE INVERTEBRATES.** The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 335. ENTOMOLOGY.** A study of the evolution, anatomy, classification and habits of insects and related arthropods. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 342. BIOLOGY OF THE CHORDATES.** Consideration of structural, physiological and ecological changes in the evolution of the chordate groups. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 351. BIOLOGY OF LOWER PLANTS.** A survey of the major structural and physiological features in the evolution of lower plants. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 357. BIOLOGY OF HIGHER PLANTS.** Comparative morphology of ferns, fern allies and seed plants, with a consideration of their phylogenetic relationships. Lecture and six hours of laboratory. *Prerequisite: Biology 201 or consent of instructor.* (6 units)
- 360. FUNCTIONAL ANATOMY OF PLANTS.** Tissues and tissue aggregates in vascular plants, stressing the functional attributes of structure, with laboratory study of living and preserved plant material and prepared slides. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 370. SYMBIOSIS.** The nature and principles of biological interactions with a survey of various types of relationships such as commensalism, mutualism, parasitism and competition. Lecture only. *Prerequisite: Biology 201.*
- 371. PARASITOLOGY.** Study of the nature and principles of parasitism with a survey of various types of animal parasites. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 375. INTRODUCTION TO PATHOBIOLOGY.** Causes, mechanisms and consequences of disease in plants and animals at all levels of biological organization. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)
- 400. MOLECULAR BIOLOGY.** A basic course in biological chemistry with emphasis on gene function. May not be counted for credit by students who have received credit for Chemistry 437. Lecture and six hours of laboratory. *Prerequisites: Biology 201 and Chemistry 226 or 326.* (6 units)
- 423. GENETICS.** Principles of classical and modern genetics including an introduction to population genetics. Lecture and six hours of laboratory. *Prerequisite: one year of Biology.* (6 units)
- 424. COMPARATIVE ANIMAL PHYSIOLOGY.** A comparative analysis of the physiological mechanisms and processes of organisms with emphasis upon trends of evolutionary specialization. Lecture and six hours of laboratory. *Prerequisite: Biology 201. Pre- or corequisite: Chemistry 226 or 326.* (6 units)

## Biology

- 431. COMPARATIVE PLANT PHYSIOLOGY.** Analysis of water relationships and nutrient requirements of green plants, their metabolism and controlling mechanisms involved in their growth and development. Lecture and six hours of laboratory. *Prerequisite:* Biology 201. *Pre- or corequisite:* Chemistry 226 or 326. (6 units)
- 440. PRINCIPLES OF DEVELOPMENT.** A comparative analysis of patterns and processes of development in organisms, with emphasis upon the role of genetic and biochemical mechanisms. Lecture and six hours of laboratory. *Prerequisite:* Biology 201. (6 units)
- 450. ECOLOGY.** An analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Lecture, field studies and six hours of laboratory. *Prerequisites:* Biology 201 and 202. *Recommended:* Mathematics 150. (6 units)
- 464. TAXONOMY OF VASCULAR PLANTS.** Taxonomic characteristics of vascular plant orders and families, with laboratory investigation of illustrative living and preserved plant material. Lecture and six hours of laboratory. *Prerequisites:* Biology 201, 202 and 357. (6 units)
- 470. BIOLOGY OF MICROORGANISMS.** A study of microorganisms and their activities: microbial cell structure and function, metabolism, microbial genetics, microbial ecology, viruses, pathogenic microorganisms, and immunity. Lecture and six hours of laboratory. *Prerequisites:* Biology 201 and 202 and Chemistry 226 or 326. *Recommended:* Biology 400 or Chemistry 437. (6 units)
- 499. METHODS AND MATERIALS IN THE TEACHING OF BIOLOGY.** This course may not be counted toward fulfilling requirements of courses in the major. *Prerequisites:* Education 330, senior or graduate standing and admission to the teacher credential program.
- 500. SEMINAR IN CHEMICAL AND MOLECULAR BIOLOGY.** An interdisciplinary course treating such topics as syntheses and biological effects of natural products, biological catalyses, intermediary metabolism and molecular biology. Emphasis is on the study of original research papers. *Prerequisite:* Biology 400 or Chemistry 437 or consent of instructor.
- 523. THE GENETICS AND ECOLOGY OF POPULATIONS.** Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Lecture and six hours of laboratory. *Prerequisite:* Biology 423. *Recommended:* Biology 450. (6 units)
- 541. COMPARATIVE ENDOCRINOLOGY.** Consideration of the endocrine control of metabolism, reproduction, differentiation, and the role of endocrines in the adaptation of selected invertebrates and vertebrates. Lecture and six hours of laboratory. *Prerequisite:* Biology 424 and Chemistry 226 or 326. (6 units)
- 550. SCANNING ELECTRON MICROSCOPY.** The application of scanning electron microscopy to biological problems. Subjects include theory, maintenance and use of the microscope, specimen preparation, darkroom procedures and interpretation of micrographs. Lecture, six hours of laboratory and independent study. *Prerequisite:* consent of instructor. (5 units)
- 595. INDEPENDENT STUDY.** Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in Biology 595 may be applied toward graduation. *Prerequisites:* Consent of department and instructor. (Credit to be arranged: 1 to 6 units)

## CHEMISTRY

Accredited by the American Chemical Society

The Department of Chemistry provides: (1) undergraduate training in chemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees; (2) appropriate courses for the teacher credential program; (3) fundamental chemical science courses required by students majoring in related fields such as physics and biology; and (4) an understanding of the achievements and contributions of Chemistry as a science.

Requirements for the bachelor of arts degree: Chemistry 215, 216, 217, 325, 326, 455, 456, 475, 590 and five additional upper-division units in Chemistry; Physics 111-112 or 211-212; and Mathematics 200, 201 and 202.

Requirements for the bachelor of science degree: Chemistry 215, 216, 217, 325, 326, 455, 456, 457, 475, 590 and 15 additional upper-division units to be selected from among Chemistry 436, 545, 525 or 526 or 576; five units from among Chemistry 437, 526, 528, 566, 568, 576, 595 or an upper-division course in mathematics or physics selected in consultation with the departmental advisor; Physics 211, 212, and 213; Mathematics 200, 201, 202, 203, and one applied mathematics course, selected in consultation with the departmental advisor; Foreign Language (German 101-102 or Russian 101-102 or equivalent proficiency). A comprehensive examination covering the major field of study will be required in the senior year.

The Bachelor of Science Degree in Chemistry satisfies the requirements for certification by the American Chemical Society.

A graduate will be awarded departmental honors in chemistry after meeting the following requirements: earn at least a 3.5 average in all Chemistry course work taken at CSCSB with a minimum being five chemistry courses, receive at least a 3.0 average on the comprehensive examinations, and earn an A in Chemistry 595 or in another way offer a clear demonstration of ability to do independent work in Chemistry.

Pre-professional students of medicine or dentistry seeking a major in chemistry should refer to Page 62 of this catalog and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.



## Chemistry

Requirements for the minor in Chemistry: Chemistry 215, 216, 217, 225-226 or 325-326, 455, and 456 or 475; Mathematics 200, 201 and 202; and Physics 111-112 or 211-212.

**100. CHEMISTRY IN THE MODERN WORLD.** An examination of chemistry, its use by modern man and its value to contemporary society. Designed primarily for students with no high school background in chemistry. Lecture and two hours of laboratory.

**205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY.** A basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Lecture and three hours of laboratory. *Prerequisite: one year of high school algebra.*

**206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY.** An introduction to the chemistry of organic compounds. Lecture and three hours of laboratory. *Prerequisite: Chemistry 205.*

**207. FUNDAMENTALS OF CHEMISTRY III: BIOCHEMISTRY.** An introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Lecture and three hours of laboratory. *Prerequisite: Chemistry 206.*

**215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND CHEMICAL BONDING.** The first of a three-course sequence in general chemistry and quantitative analysis. Topics in this course include atomic and molecular structure, chemical bonding, states of matter and solutions. Lecture and six hours of laboratory. Recommended preparation: one year of high school chemistry and three years of high school mathematics. (6 units)

**216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL REACTIONS.** Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Lecture and six hours of laboratory. *Prerequisite: Chemistry 215 or consent of instructor.* (6 units)

**217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE ANALYSIS.** Gravimetric and volumetric analysis, chemical equilibria, modern instrumental methods and radioanalytical techniques. Lecture and six hours of laboratory. *Prerequisite: Chemistry 216 or consent of instructor.*

**225. ORGANIC CHEMISTRY I.** A descriptive discussion of carbon compounds, including modern concepts of structure, reaction mechanisms and reactivity. Major emphasis is placed on organic compounds of biological interest. Lecture and six hours of laboratory. For non-chemistry majors only. *Prerequisite: Chemistry 216 or consent of instructor.* (6 units)

**226. ORGANIC CHEMISTRY II.** A continuation of Chemistry 225. Lecture and six hours of laboratory. *Prerequisite: Chemistry 225 or consent of instructor.* (6 units)

**315. ENVIRONMENTAL CHEMISTRY.** An introduction to the chemistry of water, soil and air pollution problems. Lecture and three hours of laboratory. *Prerequisites: Biology 100 or 202, and Chemistry 206 or Chemistry 216, and 225 or 325, or consent of instructor.*

**325. PRINCIPLES OF ORGANIC CHEMISTRY I.** A detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Lecture and six hours of laboratory. *Prerequisite: Chemistry 217 or consent of instructor.* (6 units)

- 326. PRINCIPLES OF ORGANIC CHEMISTRY II.** A continuation of Chemistry 325, with inclusion of topics in heterocyclic and natural products chemistry. Lecture and six hours of laboratory. *Prerequisite: Chemistry 325 or consent of instructor.* (6 units)
- 348. BIOLOGICAL APPLICATIONS OF RADIOCHEMISTRY.** An introduction to radiochemistry, radioinstrumentation, the applications of radiotechniques for analytical purposes, especially within living systems, and the effects of radiation on living systems and the environment. Lecture and six hours of laboratory. *Prerequisites: Biology 200 and Chemistry 217, and 226 or 326; or consent of instructor.* (6 units)
- 436. BIOCHEMISTRY I.** A study of the chemistry of proteins, carbohydrates, lipids and other classes of biomolecules; the kinetics, mechanism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabolism. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, and 226 or 326.*
- 437. BIOCHEMISTRY II.** A study of the biochemical processes that yield and utilize energy: metabolism of carbohydrates, lipids, amino acids, purines and nucleic acid biosynthesis. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, and 226 or 326, and 436; or consent of instructor.*
- 455. PHYSICAL CHEMISTRY I.** Thermodynamics and the properties of solutions. Lecture and six hours of laboratory. *Prerequisites: Chemistry 216, Mathematics 202 and Physics 112 or 212, or consent of instructor.* (6 units)
- 456. PHYSICAL CHEMISTRY II.** Phase equilibria, electrochemistry, transport properties, reaction rates and mechanisms, and quantum mechanics. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)
- 457. PHYSICAL CHEMISTRY III.** Quantum and statistical mechanics, gases, theories of reaction kinetics, photochemistry and crystal structure. Lecture only. *Prerequisites: Chemistry 456, Mathematics 203 and Physics 213, or consent of instructor.* Physics 213 may be taken concurrently.
- 475. INORGANIC CHEMISTRY.** Inorganic compounds and reactions. Special emphasis on group theory, structure, kinetics, and thermodynamic principles. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)
- 499. METHODS AND MATERIALS IN THE TEACHING OF CHEMISTRY.** May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*
- 525. ADVANCED ORGANIC CHEMISTRY.** Advanced concepts of structure, synthesis and properties of organic compounds, and the theory and application of experimental techniques employed in their study. Lecture and six hours of laboratory. *Prerequisite: Chemistry 326 or consent of instructor.* (6 units)
- 526. PHYSICAL ORGANIC CHEMISTRY.** Selected topics in mechanistic organic chemistry with emphasis on recent developments in the field. Lecture only. *Prerequisite: Chemistry 326 and 456 or consent of instructor.*
- 528. CHEMISTRY OF NATURAL PRODUCTS.** Selected topics in natural products chemistry. Lecture only. *Prerequisite: Chemistry 326 or consent of instructor.*

## Chemistry

- 545. ADVANCED ANALYTICAL CHEMISTRY.** Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Lecture and six hours of laboratory. *Prerequisites: Chemistry 226 or 326 and 456 or consent of instructor.* (6 units)
- 566. THE LITERATURE OF CHEMISTRY.** An introduction to the use of chemical information resources. Lecture only. *Prerequisite: Chemistry 226 or 326 or consent of instructor.* (2½ units)
- 568. HISTORY OF CHEMISTRY.** The development of chemical knowledge from antiquity to present times. Lecture only. *Prerequisite: Chemistry 206 or 226 or 326 or consent of instructor.* (2½ units)
- 576. ADVANCED INORGANIC CHEMISTRY.** Current developments in inorganic chemistry, including coordination chemistry, nonmetals and metalloids. Lecture only. *Prerequisites: Chemistry 456 and 475 or consent of instructor.*
- 590. CHEMISTRY SEMINAR.** Topics of current chemical interest, presented by students, faculty and guest speakers. May be taken once for credit toward the major requirements for graduation. *Prerequisite: Chemistry 326 or 455.* (1 unit)
- 595. INDEPENDENT STUDY.** A analytical, biochemical, inorganic, organic or physical chemical research conducted under the direction of a faculty member. A total of six units in Chemistry 595 may be applied toward requirements of the major. *Prerequisites: Consent of department and instructor.* (Credit to be arranged: 1 to 6 units)

## CHILD DEVELOPMENT

The Child Development major focuses on the biological, psychological and sociological aspects of human development, through an interdisciplinary approach which draws its course offerings from the departments of psychology, sociology, anthropology, biology and education as well as from the field of ethnic studies. The major provides the important advantage of promoting a holistic approach to development that no single discipline can offer.

The major is designed specifically for persons who plan to enter occupations or professions that call for child development specialists. These include teachers, teaching assistants, day-care workers, playground and recreation supervisors, and other positions involving work with young children and their families. The program also provides academic preparation for graduate-level training in a number of child-related professions.

Students whose interests are in teaching need to familiarize themselves as well with the professional requirements for the multiple subjects teaching credential with a focus on early childhood education and the degree program in liberal studies. For further information on the Child Development major contact the Office of Academic Planning or the School of Education.

Requirements for the major: Biology 100 and 315; Psychology 100, 325 and 326; Sociology 100 and 339; Anthropology 330; and four approved electives chosen in consultation with an advisor, from the listing below. In addition, each student is required to complete five units of work in a practical setting involving children. This requirement may be met through Education 365 or its equivalent or through comparable experience gained in certain specified community college courses. Social Sciences 210 or Mathematics 150 is strongly recommended, especially for students who plan to continue with graduate study.

### *Lower-division prerequisites:*

**BIOLOGY 100. TOPICS IN BIOLOGY.**

**PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY.**

**SOCIOLOGY 100. THE STUDY OF SOCIETY.**

### *Upper-division core:*

**PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY.**

**PSYCHOLOGY 326. PSYCHOLOGY OF CHILDHOOD.**

**SOCIOLOGY 339. SOCIALIZATION.**

**BIOLOGY 315. INTRODUCTION TO HUMAN EMBRYOLOGY.**



## **Child Development**

**ANTHROPOLOGY 330. CROSS-CULTURAL CHILD REARING PRACTICES.**

*Practicum:*

**EDUCATION 365. INTERNSHIP IN CHILD DEVELOPMENT.**

*Approved electives:*

**ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION.**

**ANTHROPOLOGY 200. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY.**

**PSYCHOLOGY 327. PSYCHOLOGY OF ADOLESCENCE AND AGING.**

**PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN.**

**PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO.**

**PSYCHOLOGY 385. PERSONALITY.**

**PSYCHOLOGY 526. MENTAL RETARDATION.**

**SOCIOLOGY 305. SOCIOLOGICAL RESEARCH AND ANALYSIS.**

**SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY.**

**SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS.**

**SOCIOLOGY 342. THE CHICANO FAMILY.**

**SOCIOLOGY 352. JUVENILE OFFENDER.**

**SOCIOLOGY 354. DEVIANT BEHAVIOR.**

**SOCIOLOGY 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT.**

**EDUCATION 330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION.**

**EDUCATION 430. THEORIES OF LEARNING.**

**EDUCATION 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN.**

**BIOLOGY 314. BIOLOGY OF HUMAN SEXUALITY.**

**BIOLOGY 316. GENETICS OF MAN.**

**BIOLOGY 321. EVOLUTION.**

**POLITICAL SCIENCE 450. POLITICAL ATTITUDES AND ORIENTATIONS OF CHILDREN.**

## CRIMINAL JUSTICE

In a period of rapid and dramatic social change, a system of criminal justice must meet the needs of each individual citizen as well as those of social, economic, governmental and other institutions. The B.A. degree program in Criminal Justice is concerned with these diverse needs and is appropriate for both career-bound pre-service students and in-service personnel in law enforcement, probation, parole, corrections and related areas.

In addition, the program is designed to provide students with an appropriate academic background for pursuing graduate study in areas such as law or criminology.

The Criminal Justice major is an interdisciplinary program with enough flexibility to permit each student to pursue his own interests. For example, students wishing to emphasize law enforcement may select particularly appropriate courses within the major and are encouraged to minor in administration, political science or sociology. Students directed toward probation, parole or correction work are advised to select courses accordingly and to take electives in psychology or sociology.

Students transferring from community colleges may substitute selected police science/corrections courses for Criminal Justice 101, 102 and 103 and may be given credit toward the major for two additional lower-division courses.

Requirements for the major: Criminal Justice 101, 102, 103, 305; Sociology 350; and either Sociology 357 or 358; nine additional courses to be selected as follows, in consultation with an advisor: either Administration 380 and 480 or two courses from among Administration 301, 302, 350, 451, 455; Philosophy 350, 360 or 465; one course from among Political Science 328, 410, 411; one course from among Political Science 330, 380, 426, 550; two courses from among Psychology 100, 385, 390; two courses from among Sociology 352, 354, 356, 359, 360, 410, 430, 436.

Requirements for a minor in Criminal Justice: Criminal Justice 101, 102, 103, Sociology 350, and two courses from among Sociology 352, 357, 358 or 359.

Students must complete Criminal Justice 101, 102 and 103 before taking upper-division courses in the major.

**101. INTRODUCTION TO CRIMINAL JUSTICE I.** A survey of the history and philosophy of the criminal justice system in the United States with emphasis on systemic change, the development and content of criminal law and current developments in the structure of education and training in the system.

## **Criminal Justice**

- 102. INTRODUCTION TO CRIMINAL JUSTICE II.** Nature, structure and functions of the police, courts (including prosecution and defense) and corrections (institutional and community) and the interrelationships among those component parts.
- 103. CRITICAL ISSUES IN CRIMINAL JUSTICE.** Consideration of various topics with regard to the criminal justice system including, but not limited to, issues in criminal evidence, arrest and detention, search and seizure, the ideology of crime control and criminal justice reform, and specific areas of crime (organized crime, political crime).
- 305. RESEARCH METHODS IN CRIMINAL JUSTICE.** Examination of research techniques and methods applicable to the criminal justice system and application to specific problems. Lecture and laboratory. *Prerequisites: Criminal Justice 101, 102, 103; Social Sciences 210 or Mathematics 150.*
- 575. INTERNSHIP IN CRIMINAL JUSTICE.** Supervised work and study in private or public organizations. May be repeated once for credit. Open only to majors. *Prerequisites: consent of instructor and department.*
- 595. INDEPENDENT STUDY.** In-depth research into special topics concerned with the Criminal Justice system utilizing readings, library and/or field research. *Prerequisites: consent of the coordinator of the program and the instructor.* (Credit to be arranged: 2 to 5 units)

## DRAMA

Fun and hard work characterize the life of the drama student. A student's interest in the theatre arts may be oriented toward career goals or toward avocational goals. The curriculum provides a broad base for both by exploring every phase of those arts and the productions provide opportunities to actually experience those arts. Many opportunities exist for working in student productions of reader's theatre and guerrilla theatre as well as in conventional theatre.

These experiences in the theatre arts are available to non-majors as well as majors. Plays are cast from enrolled students except for an occasional resident artist.

Classes are designed to afford optimum individual attention. Professors in the department do not hesitate to present differing points of view, which encourages students to develop their skill to think independently and critically.

Requirements for the major: ten upper-division courses plus five practica (10 units of Drama 320 or equivalent). The course work must include 330 and 340; 440 or 441; and three courses numbered 450 or above. At least three of the practica must be distributed in areas other than acting. Distribution will be based on student needs following consultation with the department. Transfer students may petition the department to make substitutions when they can provide evidence of competence in the specifically designated area.

Requirements for a minor in Drama: six upper-division courses including 330 and 340; 440 or 441; and two courses numbered 450 or above.

**120. ORAL COMMUNICATION.** Effective development of the voice coupled with development of the mind for the purpose of improving meaningful oral communication.

**210. ORAL INTERPRETATION OF LITERATURE.** Literary, aesthetic and oral bases for the analysis of oral communication of prose, poetry and drama.

**230. STAGECRAFT.** Theory and practice of stage production and design; including basic problems and techniques of costume construction, scenic construction and painting, elements of lighting.

**250. THE ART OF THEATRE ARTS.** Development of an awareness of such arts of the theatre as set, costume and lighting design; of acting and directing; of theatre management, organization; and of the history of theatre architecture and dramatic literature. The course will be arranged around a contemporary theatrical event.

**302. ANALYSIS OF DRAMA.** The literary experience through study of structure and theme in selected plays.



## Drama

**320. THEATRE PRACTICUM.** Application of theatre for an audience. Students will concentrate on acting, or technical production, for an intensive period. Open to all full-time students except freshmen. May be repeated for credit up to a total of ten units. No more than ten units for Theatre Practicum and Music Performance may be used to satisfy graduation requirements. (2 units)

**330. DESIGN.** A consideration of the aesthetics and history of scenic, costume and lighting design and their influence on theatrical production. Study of the elements of line, color, light and stage composition; assigned projects requiring drafting of ground plans and elevations, and rendering of original designs. *Prerequisite: Drama 230 or 320 or consent of instructor.*

**340. ACTING I.** First steps in acting and mimetic expression. Development through class participation in planned exercises of self-expression and techniques in creating a role.

**341. ACTING II.** Styles in acting. Techniques in creating a role in period dramas requiring coordination in the internal and external manifestations of character. May be repeated once for credit with consent of instructor. *Prerequisite: Drama 340 or consent of instructor.*

**440. ANTI-THEATRE.** A consideration of structured and unstructured theatre using such techniques as improvisation, reader's theater, happenings, guerrilla theatre and multi-media. Includes preparation and presentation of original scripts.

**441. DIRECTING.** Development of the theory and practice of play directing. Student director gains experience by participation in directorial exercises. *Prerequisite: Drama 340 or consent of instructor.*

**445. THE CAMERA EYE.** A study of film as a creative art medium. Such topics as the history of silent film, film since the '50's or television will be chosen. May be repeated for credit with consent of instructor.

**450. CLASSICAL DRAMA.** Development of comedy and tragedy in Greece and Rome.

**451. MYSTERY TO MELODRAMA.** Development of drama from Medieval passion plays to late 19th century villain-hissing melodramas. Emphasis on either comedy or tragedy.

**455. MODERN DRAMA I.** European, British and American realism, beginning with variations of the 19th century well-made play. Emphasizes such playwrights as Ibsen, Chekhov, Shaw and O'Neill.

**456. MODERN DRAMA II.** European, British and American anti-realism, including various avant-garde movements. Emphasizes such playwrights as Brecht, Pinter, Wilder and Genet.

**461. AMERICAN DRAMA.** Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society.

**475. SHAKESPEARE I.** Comedies and history plays.

**476. SHAKESPEARE II.** Tragedies and romances.

**481. CREATIVE DRAMATICS.** Experience with improvisational dramatic techniques designed to develop the imaginations of elementary school children and to increase creative results of classroom instruction.

## Drama

- 499. METHODS AND MATERIALS IN THE TEACHING OF DRAMA.** May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*
- 510. STUDIES OF MAJOR FIGURES AND GENRES.** May be repeated for credit, with consent of instructor.
- 520. THEATRE SEMINAR.** Literature and theory relative to aesthetics, theatre history, drama and dramatic criticism. May be repeated for credit, with consent of instructor.
- 555. INDEPENDENT STUDY.** Research and analysis culminating in direction or design of a play for public performance.

## EARTH SCIENCE

At the present time the College does not offer a major program in Earth Science or Geology. The courses listed below are offered to permit an elective option in General Education (Earth Science 101) and in support of other major programs.

**101. PHYSICAL GEOLOGY.** An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials and processes that shape the surface of the earth.

**102. HISTORICAL GEOLOGY.** A study of the geologic history of the earth including the chronological development of continental features and an interpretation of the earth's history as reflected in rock and fossil records. *Prerequisite: Earth Science 101.*

## ECONOMICS

Economists employed by large corporations, banks and investment firms provide management with information for decision-making on matters such as sales forecasting, production operations, analysis of economic conditions and government policies. In colleges and universities, they teach the principles and methods of economics and conduct research. In government agencies and international organizations, they plan and carry out studies for analyzing economic conditions and formulating public policy.

A B.A. in economics provides an appropriate background for many beginning administrative and research positions in government and industry. Graduate degrees are sometimes required in more responsible administrative and research positions in government and industry and in college and university teaching positions.

Requirements for the major: ten courses in Economics, including Economics 100, 102, 300, 302, and at least six other upper-division courses. With the approval of the departmental advisor, up to two courses in related fields may be counted toward the upper-division course requirement in Economics. Mathematics 150 or Social Sciences 210 is also required. Mathematics 200 is highly recommended.

Requirements for a minor in Economics: Economics 100, 102, 300, 302, plus two upper-division Economics courses.

Economics 100 or 102 or consent of instructor is a prerequisite for upper-division courses, except for Economics 305, 350 and 360.

Departmental honors will be awarded upon graduation to students majoring in Economics who have earned a 3.5 grade-point average in all Economics courses attempted, completed at least half of all work in Economics at this College and been recommended for departmental honors by Economics faculty.

**100. PRINCIPLES OF ECONOMICS I.** Introduction to the theory of national income determination, employment and general price levels, international economic issues and growth.

**102. PRINCIPLES OF ECONOMICS II.** Introduction to price theory; resource allocation and the distribution of income; monopoly and imperfect competition.

**300. NATIONAL INCOME THEORY.** Intermediate macroeconomic theory; analysis of the problems of measurement and determination of national income, employment and general price level.

**302. PRICE THEORY.** Analysis of the role of prices in the allocation of resources under various market structures.



## Economics

- 305. INTENSIVE INTRODUCTORY ECONOMICS.** An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open for students with credit in Economics 100 and 102. *Prerequisite: graduate standing.*
- 350. ECONOMICS OF POCKET UNDERDEVELOPMENT: THE GHETTO.** Emphasizes the various factors retarding economic progress in ghetto areas and the methods by which necessary changes can be effected. Case studies will be utilized.
- 360. ECONOMICS OF THE ENVIRONMENT.** Investigation into economic implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of economic impact of environmental control and protection.
- 410. MONEY AND BANKING.** The development and operation of the central bank and monetary institutions of the United States; problems of achieving full employment and price stability through monetary control.
- 420. COMPARATIVE ECONOMIC SYSTEMS.** Theories and forms of organization of the major contemporary economic systems.
- 430. INTERNATIONAL ECONOMICS.** The theory of international specialization and exchange; contemporary international economic issues; balance of payments, exchange rates, common markets, tariffs and commodity agreements.
- 450. ECONOMIC DEVELOPMENT.** Economic problems of underdeveloped countries and the policies necessary to induce growth.
- 460. LABOR ECONOMICS.** Study of labor markets and wages, development of unions and collective bargaining, labor legislation.
- 475. PUBLIC FINANCE.** A study of fiscal theory and policy, theories and incidence of taxation, problems of national debt management, government spending and budgeting. (Also offered as Administration 475)
- 480. INTRODUCTION TO MATHEMATICAL ECONOMICS.** Application of mathematics to economics; graphs, functions and calculus applied to income determination models, growth models and maximization models. *Prerequisite: Mathematics 200.*
- 490. INTRODUCTION TO ECONOMETRICS.** Applications of statistical methods to the verification of hypotheses generated by economic theory. *Prerequisites: Mathematics 101 and Social Sciences 210 or Mathematics 150.*
- 500. HISTORY OF ECONOMIC THOUGHT.** The development of economic doctrines and analysis from ancient times to the present; emphasis on landmark economists and their thought from Adam Smith to John Maynard Keynes.
- 555. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisites: departmental approval of written proposal of project and consent of instructor.*
- 565. PROBLEMS IN PUBLIC FINANCE.** Problems and concepts of financial management in public administration including: revenue sources, tax administration, debt management, the budget cycle and budget types. *Prerequisites: senior standing, Administration 560, Economics 475 or Administration 475, or consent of instructor. (Also offered as Administration 565)*
- 590. SEMINAR IN ECONOMICS.** Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor.







The School of Education offers course work designed to prepare students for a variety of careers in Education. At the present time, the College is approved to offer the single subject teaching credential for teaching a single subject in a "departmentalized" school (all grades), and the multiple subjects teaching credential for teaching in a self-contained classroom (all grades). A pupil personnel services credential program is also offered, and plans are underway to offer the bilingual/cross-cultural specialist credential, the administrative services credential and the early childhood specialist credential. Master's degrees are offered in elementary and secondary education and in school counseling. In-service course work also is available to personnel currently employed in Education, or for those interested in learning more about the field.

### *Admission to the Teacher Education Program*

Admission to the College must precede admission to the credential program. During the first week of every term, all new credential candidates (juniors, seniors and graduate students) must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Candidates may enroll in Education 330 (Psychological Foundations of Education) and Education 345 (Reading in the Elementary School) or Education 445 (Reading in the Secondary School) without being formally admitted to the program. Admission is based on the following criteria:

1. Three written recommendations, at least two from faculty members in the student's major department.
2. Interview by a member of the School of Education faculty.
3. Health clearance secured from the College Health Service.
4. Academic achievement. Candidates must maintain a minimum 2.0 (C) grade-point average in all college course work and 2.5 (C+) in course work in the major field and in professional education.
5. Completion of an approved program in a major field or satisfactory completion of the required state examination.
6. A signed affidavit by the candidate indicating he has no criminal convictions which would preclude the issuance of a credential.

In addition, the following criteria are also used: professional aptitude, personality and character, speech and language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.



## Education

One quarter in advance of the time the student intends to enroll in student teaching, the candidate must complete an application for student teaching. At that time, each applicant is reviewed in terms of all of the above criteria and, in addition, candidates must have completed the prerequisite course work in Education, and be at least of senior standing.

### *Major*

The multiple subjects teaching credential requires a student to satisfactorily complete an examination covering the following fields of study: English, humanities, social science, science and mathematics. Students who choose the liberal studies major on this campus do not need to take the examination. (Information on this program may be found on Page 141 of this Bulletin.)

The single subject teaching credential requires a student to complete an approved program of study or complete a required state examination. Approved fields of study for the single subject teaching credential include the following: art, business (offered as administration on this campus), English, foreign language (any one), mathematics, music, physical science, life science, social science, history, government (taught as political science on this campus). For further information on examinations and waivers, contact the School of Education.

### *Professional Requirements*

All candidates for a teaching credential must complete Education 330 (Psychological Foundations of Education). In addition, all candidates for a multiple subjects teaching credential and candidates for a single subject teaching credential (except majors in art and music) must complete a course on the teaching of reading or pass a state examination. These courses are: Education 345 (Reading in the Elementary School) and Education 445 (Reading in the Secondary School).

The above two courses (or the passage of the examination) are prerequisite to student teaching. Students must apply for student teaching one quarter in advance of the time they intend to student teach and must be of at least senior standing. Student teaching for both credentials is a full-time assignment for two quarters, and no concurrent course work may be taken except for the required methods courses.

Students seeking the multiple subjects teaching credential must register for Education 370 (Elementary Student Teaching I), 10 units, during one quarter and Education 371 (Elementary Student Teaching II), 10 units, during the succeeding quarter. Concurrently with each of these courses, students must also take one of the following methods courses: Education 340 (Elementary Curriculum and Methods I) or Education 341 (Elementary Curriculum and Methods II).

Candidates for the single subject teaching credential must register for Education 470 (Secondary Student Teaching I), 10 units, during one quarter and Education 471 (Secondary Student Teaching II), 10 units, during a succeeding quarter. Students must also complete two of the

following methods courses and these must be taken concurrently with student teaching: Education 440 (Secondary Curriculum and Instruction I); Education 441 (Secondary Curriculum and Instruction II) or courses in appropriate other disciplines numbered 499 (methods and materials of teaching in the student's major field).

### *Other Credential Programs*

The College offers an approved program (under Fisher Act requirements) for the pupil personnel services credential. Plans are underway to also offer the bilingual/cross-cultural specialist credential, the administrative services credential and the early childhood specialist credential. Further information on these programs can be secured from the School of Education.

### *Master's Degree Programs*

The College offers three master's degree programs in education: one with a specialization in elementary education; one with specialization in secondary education (for teachers of English or social science); and a third with a specialization in pupil personnel services. Further information may be found in the Graduate Bulletin or may be secured from the School of Education.

- 330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION.** A study of learning, motivation, evaluation, and human growth and development as applied to teaching.
- 331. GROWTH AND DEVELOPMENT OF THE YOUNG CHILD.** Developmental characteristics of the young child, with special emphasis on family, child, pre-school and school interaction. *Prerequisite: admission to the credential program.*
- 340. ELEMENTARY CURRICULUM AND METHODS I.** Introductory course in elementary curriculum and basic teaching techniques with emphasis on mathematics and science. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.
- 341. ELEMENTARY CURRICULUM AND METHODS II.** Introductory course in elementary curriculum and basic teaching techniques with emphasis on social science and language arts. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.
- 342. CURRICULUM AND METHODS FOR PRE-SCHOOL EDUCATION.** Principles, methods and materials of instruction in early childhood education. Includes instruction in the use of audio-visual equipment. Field work required. *Prerequisite: admission to the credential program.*
- 343. CURRICULUM AND METHODS FOR PRIMARY EDUCATION.** Continuation of Education 342, but includes emphasis on the teaching of reading including the phonetics approach. *Prerequisite: admission to the credential program.*
- 344. CURRICULUM AND METHODS FOR BILINGUAL/CROSS-CULTURAL EDUCATION.** Bilingual/cross-cultural teaching strategies and materials development. Emphasis on teaching language arts in Spanish, ESL and SSL teaching techniques, and development of units of study based on multicultural themes and concepts. To be taken concurrently with student teaching.

## Education

- 345. READING IN THE ELEMENTARY SCHOOL.** Methods of teaching reading in the elementary school including skills in the diagnosis of reading difficulties, organization for instruction, selection of appropriate methods and use of instructional materials.
- 347. ORGANIZATION AND ADMINISTRATION OF PRE-SCHOOL EDUCATION.** Principles of organizing and administering pre-school programs including interpretation of school programs, laws, fiscal management and personnel practices. (2½ units)
- 356. STUDENT TEACHING: PRE-SCHOOL.** Observation, student teaching and scheduled seminars. Special permission required.
- 365. INTERNSHIP IN CHILD DEVELOPMENT.** Supervised work and study in settings involving young children. *Prerequisite: completion of upper-division core courses in child development or consent of instructor.*
- 370. ELEMENTARY STUDENT TEACHING I.** Full-time teaching in the public schools. To be taken concurrently with Education 340. (10 units)
- 371. ELEMENTARY STUDENT TEACHING II.** Full-time teaching in the public schools. To be taken concurrently with Education 341. (10 units)
- 427. EDUCATION AND SOCIETY.** An analysis of the process of education from the position of the individual seeking and becoming and the social institutions which facilitate and inhibit this process. A seminar course open to students in all majors.
- 430. THEORIES OF LEARNING.** An examination of major theories of learning and their application to understanding child behavior.
- 440. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION I.** Analysis of curriculum and instructional procedures in the secondary school. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.
- 441. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION II.** Curriculum planning, teaching strategies, media and classroom management. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.
- 445. READING IN THE SECONDARY SCHOOL.** Techniques and procedures for improving and extending reading habits, skills and interests of students in secondary schools.
- 470. SECONDARY STUDENT TEACHING I.** Full-time teaching in the junior or senior high school. Must be taken concurrently with Education 440 or 441 or the appropriate 499 course. *Prerequisite: consent of advisor.* (10 units)
- 471. SECONDARY STUDENT TEACHING II.** Full-time teaching in the junior or senior high school. Must be taken concurrently with Education 440 or 441 or the appropriate 499 course. *Prerequisites: satisfactory completion of Education 470 and consent of advisor.* (10 units)
- 495. SOCIOLOGICAL FOUNDATIONS OF EDUCATION.** American cultural values and their influence on education; role of the school in renewal with special attention to contemporary disadvantaged groups; social class structure.
- 500. APPLIED LEARNING: PROGRAMMED INSTRUCTION.** Theory and practice of programmed instruction.
- 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN.** Physical, intellectual, social and emotional deviations among children and youth, with implications among exceptional children.

- 531. PRINCIPLES OF GUIDANCE.** Basic principles of guidance and their function in the educational process. Factors involved in understanding individual students. Functioning of pupil personnel programs. Commonly used counseling techniques for teachers and counselors.
- 532. TEACHING THE EDUCATIONALLY HANDICAPPED CHILD.** Causes, symptoms, diagnoses and remediation of specific learning disabilities. Special emphasis given to planning and evaluating programs for the educationally or neurologically handicapped child.
- 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO.** The Mexican-American's quest for equal educational opportunities, the need for Mexican-American culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the regular school subjects and in bilingual bicultural education.
- 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN.** The Black American's quest for equal educational opportunities, the need for Black culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the regular school subjects. Cultural awareness to help teachers develop ways of motivating and relating to the Black students.
- 541. PROBLEMS IN ELEMENTARY CURRICULUM.** Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.* (2-5 units)
- 542. SEMINAR IN EDUCATION.** An intensive study of topics and problems in secondary education, such as reading and team teaching. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.* (2-5 units)
- 560. LANGUAGE DEVELOPMENT AND COMMUNICATION DISORDERS.** Children's language development, communication disturbances, reasons for disorders and possible treatments.
- 575. INTERNSHIP IN EDUCATION.** Supervised work and study in private or public organizations. May be repeated once for credit. *Prerequisite: consent of instructor and School of Education.*
- 595. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisite: consent of school.* (1-5 units)
- 600A. MASTER'S DEGREE PROJECT.** (2½ units)
- 600B. MASTER'S DEGREE PROJECT.** (2½ units)
- 610. RESEARCH METHODOLOGY IN EDUCATION.** Principles of research design, methods of data collection and analysis. *Prerequisite: Social Sciences 210, or Mathematics 150, or equivalent.*
- 630. RESEARCH IN TEACHING AND LEARNING.** A survey of current research in teaching and learning. *Prerequisite: Education 610.*
- 635. SEMINAR IN READING.** Review of research, curriculum issues and instructional procedures. For experienced teachers only.
- 640. ELEMENTARY SCHOOL CURRICULUM.** History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education.



## Education

- 641. MEDIA AND STRATEGIES IN TEACHING.** An assessment of media used in instruction with emphasis on teaching strategies and principles of learning. *Prerequisite: graduate standing or consent of instructor.*
- 642. INSTRUCTIONAL TECHNOLOGY.** Computer-assisted instruction, instructional television, self-instructional systems, programmed instruction and other aspects of instructional technology.
- 650. EDUCATIONAL AND CAREER PLANNING.** Theory of occupational choice, labor force data, and implementation and continuation of career advisement programs from elementary grades through high school.
- 651. LAWS AND ETHICS RELATING TO CHILDREN.** Examination of the present legal and ethical responsibilities a family, community and school have towards a child. Comprehensive study of various community organizations as to internal structure, referral services and most specifically, their service to the student, truant, delinquent and institutional child.
- 652. DYNAMICS OF INDIVIDUAL BEHAVIOR AND CASE STUDY.** Evaluation of various assessment tools, including tests, life records, rating scales and interviewing. Emphasis on growth and developmental factors relating to the child in the school counseling setting.
- 654. ORGANIZATION, ADMINISTRATION AND EVALUATION OF PUPIL PERSONNEL SERVICES.** Study of various pupil personnel programs at the elementary, high school and college levels. Emphasis on development, administration and evaluation of such programs. Interaction of various personnel at different levels of the program as well as interaction with community resource people.
- 659A. FIELD WORK AND INTERNSHIP.** (2 units)
- 659B. FIELD WORK AND INTERNSHIP.** (2 units)
- 659C. FIELD WORK AND INTERNSHIP.** (2 units)  
Field work or internship for prospective school counselors in the public schools. Application of concepts and procedures of counseling services in appropriate school settings. Daily observation and practice. Interns must have released time and permission of school district. Regular seminars or conferences required. *Prerequisite: consent of instructor.*
- 680. SEMINAR IN COMPARATIVE EDUCATION.** Comparison of educational theory and practice in certain selected countries.
- 695. FOUNDATIONS OF EDUCATION.** History and theory of education within the setting of American society.
- 699. SECONDARY SCHOOL CURRICULUM.** Study of the development of the American secondary school with emphasis on current and emerging patterns of organization and curriculum.

## ENGLISH

Everyone has his own reasons for studying literature but these personal feelings tend to take for granted one common notion: the experience of great poetry, fiction and drama makes a person more aware of himself and his world, more human.

The English department at California State College, San Bernardino is, like most college or university English departments, devoted mainly to the study of literature. The literature courses are arranged in different ways; some analyze a specific genre (poetry, fiction, drama); some treat a particular period (the sixteenth century, the Romantic period); some deal with an individual author, area or problem (Shakespeare, modern American poetry, black literature, fantasy).

The department offers additional courses in the history and structure of the language and in advanced composition. Courses in creative writing give students the opportunity to write poetry or fiction under the direction of an experienced writer. Courses in journalism give students the chance to develop professional skills under the direction of a working newspaperman.

English majors enter many careers, such as teaching, journalism, publishing, advertising, writing, business and industry. They may also enter graduate and professional schools for the further study of English or for training in such fields as library science and law. Students having the abilities the English major is designed to foster—perceptive reading, skillful writing and a developed sense of imagination and originality—are particularly well-equipped for the needs of a changing society.

*Note: Requirements for the major were being revised as this catalog went to press. Be sure to consult the English department for up-to-date information about requirements and opportunities that will be provided for currently enrolled students to elect the new requirements.*

Requirements for the major: a minimum of 10 courses in English, including two courses from 301, 302 or 303; and at least six other upper-division English courses. Two courses from 110, 111, 120, 121, or from upper-division literature courses offered by a department other than English may be included among the 10 required courses.

Completion of a comprehensive examination with a satisfactory score is also a requirement for graduation. The examination is offered each term and may be repeated until a passing score is attained.

The major also requires four full-term courses in a foreign language, or equivalent proficiency; or three full-term courses in a foreign language, or equivalent proficiency, and one course in literature in translation, in the same language.

## English

Students majoring in English who also wish to pursue a liberal studies major (diversified major) for elementary school teaching should consult with the department chairman.

The College now offers a Master of Arts in Education, with an option in English, for secondary teachers. Details on this graduate program may be secured from the department or the School of Education.

Requirements for a minor in English: six courses, including English 170; a course in the study of language such as English 500 or 505; a survey course in literature (English 110, 111, 120 or 121); an upper-division course in American Literature, such as English 432 or 439; an upper-division course in Shakespeare, such as English 475 or 476; an upper-division course in literary analysis (English 301, 302 or 303).

**100. INTENSIVE ENGLISH.** A program in English composition for students from dialectically variant linguistic backgrounds.

**101. FRESHMAN COMPOSITION.** Analytical study of the language and structure of prose to help students develop a clear, mature and flexible expository style. Frequent writing required.

**110. WORLD LITERATURE I.** Readings in Oriental and continental European literature to the Renaissance (in English translation).

**114 111. WORLD LITERATURE II.** Readings in Oriental and continental European literature from the Renaissance to the contemporary period (in English translation).

**120. ENGLISH LITERATURE I.** Readings in English literature from the Middle Ages to Milton.

**121. ENGLISH LITERATURE II.** Readings in English literature from Dryden to the contemporary period.

**170. STUDIES IN LITERATURE.** Analysis of the forms and content of literature.

**301. ANALYSIS OF POETRY.** An approach to an understanding of the literary experience through a study of structure and theme in selected lyric poems.

**302. ANALYSIS OF DRAMA.** An approach to an understanding of the literary experience through a study of structure and theme in selected plays.

**303. ANALYSIS OF PROSE FICTION.** An approach to an understanding of the literary experience through a study of structure and theme in selected pieces of narrative prose.

**315. STUDIES IN LITERARY FIGURES AND GENRES.** Intensive study in the works of a particular writer or in a genre. May be repeated for credit.

**333. MYTH AND EPIC.** Myths and epics of folklore and of classical and Eastern literatures, emphasizing relationship to later Western literature.

**370. THEORY AND PRACTICE OF NEWSPAPER JOURNALISM.** Practice in writing and editing will be emphasized. Consideration of the press in its social and historical context.

**372. JOURNALISM PRACTICUM.** Practical application of journalism skills. To be taken concurrently with, or subsequent to, English 370. May be repeated for credit for a total of not more than 6 units. Graded credit/no credit. (2 units).

- 385. INTRODUCTION TO LITERARY CRITICISM.** The major issues in literary criticism considered in historical perspective.
- 393. WRITING SEMINAR.** Advanced work in writing expository prose, with emphasis on the demands of the individual student's own discipline. Open to full-time students, except freshmen. May not be counted toward fulfilling requirements for the major. Credit cannot be given for both English 393 and English 396. (2 units)
- 396. ADVANCED COMPOSITION.** Advanced expository writing. Credit cannot be given for both English 396 and English 393.
- 401. ENGLISH LITERATURE OF THE MIDDLE AGES.** Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory.
- 403. ENGLISH LITERATURE OF THE RENAISSANCE.** Poetry, prose and drama (exclusive of Shakespeare) of the sixteenth century.
- 406. SEVENTEENTH CENTURY LITERATURE.** English prose and poetry from Bacon through Milton.
- 409. ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY.** Emphasis on Dryden, Pope, Swift and Johnson.
- 412. ROMANTIC PROSE AND POETRY.** A study of major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron.
- 415. VICTORIAN LITERATURE.** A study of major writers of Victorian England.
- 430. AMERICAN LITERATURE I.** Colonial and Federal American literature to the early nineteenth century.
- 432. AMERICAN LITERATURE II.** The romantic movement in American literature.
- 436. AMERICAN LITERATURE III.** The age of realism in American literature.
- 439. BLACK LITERATURE.** The literature by and about the Black man. Emphasis on the contribution of Black writers to our cultural heritage.
- 444. MODERN POETRY I.** British and American poetry from the early 1900's to World War II.
- 445. MODERN POETRY II.** British and American poetry since World War II.
- 447. MODERN FICTION I.** British and American fiction from the early 1900's to World War II.
- 448. MODERN FICTION II.** British and American fiction since World War II.
- 450. CLASSICAL DRAMA.** Development of comedy and tragedy in Greece and Rome.
- 455. MODERN DRAMA I.** European, English and American Realism.
- 456. MODERN DRAMA II.** European, English and American Anti-realism.
- 460. DEVELOPMENT OF THE NOVEL I.** The eighteenth century novel in historical perspective, with emphasis on close reading of selected English novels.
- 462. DEVELOPMENT OF THE NOVEL II.** The nineteenth century novel in historical perspective, with emphasis on close reading of selected English novels.
- 475. SHAKESPEARE I.** The comedies and history plays.



## English

**476. SHAKESPEARE II.** The tragedies and romances.

**499. METHODS AND MATERIALS IN THE TEACHING OF ENGLISH.** May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing, and admission to the teacher credential program.*

**500. GRAMMAR AND LINGUISTICS.** An introduction to the attitudes, theories and techniques of modern grammar and linguistic science.

**505. HISTORY OF THE ENGLISH LANGUAGE.** The development of the English language from the beginning to the present.

**511. THEORY AND PRACTICE OF RHETORIC AND COMPOSITION.** Traditional and contemporary approaches to rhetoric, composition and style.

**514. CREATIVE WRITING.** A course in which the student writes fiction and/or poetry and interprets literature in the light of that experience. May be repeated for credit with consent of the instructor but may count only once toward fulfilling requirements of courses in the major. *Prerequisite: consent of instructor.*

**522. INDEPENDENT STUDY IN WRITING.** Project in advanced writing: fiction, non-fiction, poetry or drama. An outline of the project must be approved during the junior year and the completed project approved at least one quarter before graduation. This project may, upon special recommendation, substitute for the comprehensive examination. *Prerequisites: English 514 and departmental approval.*

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**550. APPROACHES TO LITERATURE.** Study and practice of various critical approaches, such as the moral, formalistic, psychological, archetypal, with particular attention to their assumptions about the meaning and function of literature.

**555. SPECIAL STUDIES IN LITERATURE.** Independent study of selected literary figures or study in a special area of literary theory or history. Requires prior approval of department chairman and consent of instructor.

**570. SEMINAR IN ENGLISH LITERATURE.** May be repeated for credit with consent of instructor.

**580. SEMINAR IN AMERICAN LITERATURE.** May be repeated for credit with consent of instructor.

## ENVIRONMENTAL STUDIES

To accomplish its principal objective of promoting an understanding of the interaction of man with his environment, this interdisciplinary degree program includes courses from the natural sciences, social sciences and humanities.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's ecosystem—principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of man upon the environment and the possibility of creating different environments. Questions of aesthetics and values, as they relate to the environment, are examined through courses in the humanities.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career. Professional opportunities for graduates include a wide range of tasks in public agencies responsible for developing and enforcing environmental controls, and in business, industry and non-profit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

Requirements for the major: Geography 103 (Physical Geography), Biology 202 (Biology of Populations), Physics 100 (A Survey of Physics) or Physics 111 (Basic Concepts of Physics I), Chemistry 205 (Fundamentals of Chemistry I) or Chemistry 215 (Introductory Chemistry I), Mathematics 150 (Elementary Statistics);

From the School of Natural Sciences: any three of the following courses: Biology 200 (Biology of the Cell), Biology 201 (Biology of Organisms), Biology 319 (Local Flora), Biology 370 (Symbiosis), Biology 423 (Genetics), Biology 450 (Ecology), Chemistry 206 (Fundamentals of Chemistry II), Chemistry 207 (Fundamentals of Chemistry III), Chemistry 216 (Introductory Chemistry II), Chemistry 217 (Introductory Chemistry III), Chemistry 225 (Organic Chemistry I), Chemistry 315 (Environmental Chemistry), Physics 112 (Basic Concepts of Physics II), Physics 300 (Electronics for Scientists), Mathematics 410 (Mathematical Modeling), Natural Sciences 140 (Introduction to Digital Programming), Natural Sciences 340 (Advanced Digital Computing); one only of the three courses may be chosen from: Natural Sciences 407 (Biological Basis of Social Behavior), Natural Sciences 418 (Frontiers in Science), Natural Sciences 421 (Dynamics of Populations),

## Environmental Studies

Natural Sciences 430 (The Science of Heredity and Human Affairs),  
Natural Sciences 431 (The Biological Sciences and Public Policy),  
Natural Sciences 432 (Energy and its Utilization by Man);

From the School of Social Sciences: any four of the following courses: Administration 530 (Business and Society), Anthropology 475 (Cultural Ecology), Economics 360 (Economics of the Environment), Geography 350 (Conservation and Natural Resources), Geography 410 (Regional Planning and Resource Development), Geography 440 (Urban Geography), Political Science 342 (The Politics of Environment), Political Science 428 (Formulation of Public Policy), Social Sciences 321 (Urbanization and the Urban Environment), Sociology 420 (Population Problems), Sociology 430 (Urban Sociology), Sociology 437 (Complex Organizations);

From the School of Humanities: any three of the following courses: Art 312 (Modern Art, 1850 to the Present), Humanities 401 (Utopia: The Idle Dream?), Humanities 403 (Technology Versus the Pastoral Ideal in American Literature), Philosophy 350 (Ethics), Philosophy 360 (Political Philosophy), Philosophy 370 (Philosophy of Art and Criticism: Aesthetics), Philosophy 465 (Philosophy of Law);

Environmental Studies: three courses: Environmental Studies 300 (A Survey of Environmental Problems), Environmental Studies 500 (Environmental Issues), Environmental Studies 501 (Special Projects).

**300. A SURVEY OF ENVIRONMENTAL PROBLEMS.** An identification of environmental problems: sources, effects and interrelationships. Special emphasis is placed on developing a critical attitude toward the recognition and assessment of environmental problems. *Prerequisite: basic core or equivalent or consent of instructor.*

**500. ENVIRONMENTAL ISSUES.** A critical survey of alternative solutions to environmental problems requiring the synthesis of ideas derived from the disciplines emphasized in the major. *Prerequisites: Environmental Studies 300 and senior standing.*

**501. SPECIAL PROJECTS.** Students will engage in an environmental study either individually or in groups. The studies undertaken may include the recognition, assessment or possible solutions of current or potential environmental problems. Open to Environmental Studies majors with senior standing and to other qualified students upon consent of the Committee on Environmental Studies.

## ETHNIC STUDIES

The College as part of its ethnic studies program offers a variety of subject matter options. These include the history major with options in Black Studies or Mexican-American Studies and the sociology major with options in Black Studies or Mexican-American Studies. In addition, a group of three Ethnic Studies courses may be selected for a supporting field in a Social Science major. Besides these, the college offers ethnic studies courses as electives.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration.

The ethnic studies option in sociology requires Social Sciences 210 or equivalent; Sociology 300, 305, 310, 312; four courses in either Mexican-American Studies or Black Studies, and two additional sociology courses which fulfill requirements for the major.

**ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA.**

**ANTHROPOLOGY 352. INDIANS OF THE SOUTHWEST.**

**ANTHROPOLOGY 451. AMERICAN INDIANS AND WHITE SOCIETY.**

**ART 325. STUDIES IN MEXICAN AND CHICANO ART.** Topics in the painting, architecture, sculpture and pottery of Mexico from pre-Columbian times to the present day.

**ECONOMICS 350. ECONOMICS OF POCKET UNDERDEVELOPMENT: THE GHETTO.** Factors relating to economic underdevelopment in ghetto areas and the methods by which necessary changes can be effected.

**EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO.** The Mexican-American's quest for equal educational opportunities, the need for Mexican-American culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the traditional school subjects and in bilingual, bicultural education.

**EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN.** The Black American's quest for equal educational opportunities, the need for Black culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the traditional school subjects. Cultural awareness to help teachers develop ways of motivating and relating to Black students.

**ENGLISH 439. BLACK LITERATURE.** The literature by and about the Black man. Emphasis on the contribution of Black writers to the American cultural heritage.

**HISTORY 331. BLACK HISTORY I.** The origin of sub-Saharan cultures and the development of African civilizations through the 18th century. Special emphasis is placed on West Africa and the region's relationship to Black people of North America.



## Ethnic Studies

**HISTORY 332. BLACK HISTORY II.** History of the Black people in America to World War I, including the experience of slavery, contribution of Blacks to American society and the effects of the attitudes and policies of the majority.

**HISTORY 333. BLACK HISTORY III.** The Black people in America since World War I, with an emphasis on the changing nature of the Black community, the Civil Rights struggle and the rise of Black nationalism.

**HISTORY 390. HISTORY OF MEXICO.** Survey of Mexican history from early Indo-American civilizations to the present.

**HISTORY 391. CHICANO HISTORY.** The Mexican-American in the United States from the Colonial period to the present, with special emphasis on the Southwest.

**HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY.** Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society.

**HISTORY 596. SEMINAR IN BLACK HISTORY.** Study of some phase of Black history in America. May be repeated for credit, with consent of instructor.

**HUMANITIES 501. SEMINAR IN CHICANO STUDIES.** Study of some phase of Mexican-American studies in the Humanities. *Prerequisites: Advanced standing and consent of instructor.*

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**MUSIC 350. MUSIC OF OTHER CULTURES.** Offered either as a survey of world music or as an intensive study into the music of a particular country or region. May be repeated for credit.

**MUSIC 351. MEXICAN AND CHICANO MUSIC.** The musical cultural heritage of Mexico and its relation to the Mexican-American community.

**POLITICAL SCIENCE 350. POLITICS OF BLACK AMERICA.** Black liberation ideologies and attempts at their implementation within the American political system.

**POLITICAL SCIENCE 351. THE CHICANO AND POLITICS.** Analysis of the political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process.

**PSYCHOLOGY 335. WHITE NORMALITY/BLACK DEVIANCE.** Psychological and social-psychological analysis of Black deviance from behavior patterns specified as white normality.

**PSYCHOLOGY 336. BLACK RAGE.** Psychological make-up of the Black man in America. Special attention is given psychological effect of repressing anger.

**PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN.** Analysis of the cognitive and affective development of the individual Black American. Includes survey of research which relates the total psychological functioning of the Black person to culturally distinct developmental patterns.

**PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO.** Analysis of the diverse psychological forces that affect the development of the individual Chicano. Includes survey of research which identifies specific aspects of psychological functioning, especially as psychological development relates to cultural differences.

**SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA.** Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences.

**SOCIAL SCIENCES 220. INTRODUCTION TO CHICANO STUDIES.** Introductory study of the life of the Mexican-American: his culture, history, socio-economics, politics, education, social stratification and family life.

**SOCIAL SCIENCES 250. INTRODUCTION TO BLACK STUDIES.** The historical pilgrimage of the Black man from Africa to America, the contemporary struggle of the Black man in America, the future of the Black man in America.

**SOCIAL SCIENCES 415. RESEARCH METHODS IN BLACK STUDIES.** The philosophy, methods and materials necessary for producing a scholarly paper in Black Studies. Formal presentation of a research paper in the student's major field.

**SOCIOLOGY 322. SOCIOLOGY OF THE GHETTO.** Existing theories relating to ghetto life styles; the relationship of these to American society as a whole.

**SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS.** The forces affecting the Black family, with emphasis on the roles assigned to individual members.

**SOCIOLOGY 342. THE CHICANO FAMILY.** Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective.

**SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES.** Minority group status in contemporary American society.

**SOCIOLOGY 441. BLACK SOCIAL STRATIFICATION.** Caste in America, comparison of Black and white stratification, Black social mobility.

**SOCIOLOGY 442. CHICANO SOCIAL STRATIFICATION.** Variables affecting the social status of the Mexican-American in society. Mexican-American social mobility, social class differences in Mexican-American communities.

**SPANISH 117. SPANISH FOR NATIVE SPEAKERS.** Elementary Spanish I. Grammar, readings, conversation.

**SPANISH 118. SPANISH FOR NATIVE SPEAKERS.** Elementary Spanish II. Grammar, readings, writing. *Prerequisite: Spanish 117 or equivalent.*

**SPANISH 119. SPANISH FOR NATIVE SPEAKERS.** Intermediate Spanish I. Grammar, readings, composition, communication skills. *Prerequisite: Spanish 118 or equivalent.*

**SPANISH 120. SPANISH FOR NATIVE SPEAKERS.** Intermediate Spanish II. Orthography, readings, language structure and communication skills. *Prerequisite: Spanish 119 or equivalent.*

**SPANISH 440. MEXICAN LITERATURE.** A study of the development of Mexican literature with emphasis on the Mexican novel. *Prerequisite: Spanish 104 or equivalent.*

**SPANISH 450. MEXICAN LITERATURE IN TRANSLATION.** Critical examination of selected works of Mexican literature to the present day. Emphasis on the novel, drama, poetry and the essay. May not be taken for credit by students who have received credit for Foreign Languages 450, Literature in Translation, Mexico.



## FOREIGN LANGUAGES AND LITERATURES

The needs and expectations of students who enroll in foreign language courses are varied; so too are the career opportunities for students of foreign languages. The Department of Foreign Languages and Literatures recognizes this diversity and provides a curriculum which reflects this as a primary concern.

Course offerings range from the usual array of foreign language and literature courses designed for those who wish to specialize to international literature and culture courses taught in English. The latter, having no prerequisites, are open to students who desire to explore these areas but have little or no fluency in a foreign language.

Particularly attractive employment opportunities exist in elementary and secondary teaching for teachers who are culturally and linguistically prepared in two or more ethnic traditions. This is just one of the demands of the 1970's for which the department is able to assist students seeking the necessary qualifications.

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**450. LITERATURE IN TRANSLATION.** Significant masterpieces of a genre or a period read in English translation. No prerequisite. May be repeated for credit as topics change. When the topic of Foreign Languages 450 is Mexican Literature, this course may not be taken for credit by a student who has received credit for Spanish 450.

**499. METHODS AND MATERIALS IN THE TEACHING OF FOREIGN LANGUAGES.** May not be counted toward fulfilling requirement of courses in the major. *Prerequisites:* Education 330, senior or graduate standing, and admission to the teacher credential program.

**555. INDEPENDENT STUDY.** Independent study of individual writers and genres. *Prerequisite:* one 300-level course in the language under study or consent of instructor.

### French

Requirements for the major: twelve courses in French or their equivalent, including 301. One course in Humanities 460 (when the topic is France) and one course either in Foreign Languages 450 or History 510 will be accepted toward the major.

Requirements for a minor in French include the following courses: French 101, 102, 103, 200, 301, and one additional course at the 300 level.

**101. ELEMENTARY FRENCH I.** Pronunciation, grammar, reading, and conversation.

**102. ELEMENTARY FRENCH II.** Continuation of French 101.



## Foreign Languages

- 103. INTERMEDIATE FRENCH.** Grammar, composition, and conversation; discussion in French of literary texts. *Prerequisite: French 102 or equivalent.*
- 110. INTENSIVE STUDY OF FRENCH.** An intensive one-quarter course in French covering the material normally presented in French 102 and 103. Recommended to students who do not wish to delay the sequence in French language study. *Prerequisite: French 101 or equivalent.* (10 units)
- 115. INTENSIVE STUDY OF FRENCH.** An intensive one-quarter course in French covering the material normally presented in French 101, 102 and 103. *Prerequisite: consent of instructor.* (15 units)
- 200. CONVERSATION AND COMPOSITION.** *Prerequisite: French 103 or equivalent.*
- 210. INTRODUCTION TO LITERARY STUDY.** Techniques of literary study and analysis. Explication de textes. *Prerequisite: French 103 or equivalent.*  
*Ordinarily, all upper-division courses are conducted in French.*
- 301. ADVANCED FRENCH I.** The study of French phonology, with emphasis on improvement of the students' pronunciation. *Prerequisite: French 200 or equivalent.*
- 302. ADVANCED FRENCH II.** The study of the structure of the French language, with emphasis on improvement of the students' ability to write French. *Prerequisite: French 200 or equivalent.*
- 311. MASTERPIECES OF FRENCH LITERATURE I.** Middle Ages and sixteenth century. *Prerequisite: French 210 or equivalent.*
- 312. MASTERPIECES OF FRENCH LITERATURE II.** Seventeenth and eighteenth centuries. *Prerequisite: French 210 or equivalent.*
- 313. MASTERPIECES OF FRENCH LITERATURE III.** Nineteenth century. *Prerequisite: French 210 or equivalent.*
- 340. ADVANCED CONVERSATION.** Advanced practice of oral French stressing the reading and discussion of current topics in France. May be repeated for credit. *Prerequisite: French 200 or consent of instructor.* (2½ units)
- 403. THE FRENCH NOVEL IN THE TWENTIETH CENTURY.** *Prerequisites: two 300 level French courses or equivalent.*
- 404. THE FRENCH THEATRE IN THE TWENTIETH CENTURY.** *Prerequisites: two 300-level French courses or equivalent.*
- 420. SPECIAL TOPICS IN FRENCH LITERATURE.** The study of such topics as the role of nature in French literature. May be repeated for credit. *Prerequisites: two 300-level courses in French literature or equivalent.*
- 510. SEMINAR IN FRENCH LITERATURE.**
- 530. STUDIES IN LITERARY FIGURES AND GENRES.** The study of individual writers and genres such as Proust, Moliere and the new novel. May be repeated for credit. *Prerequisite: one 400-level French course or consent of instructor.*

## German

No major program in German will be offered in 1974-75. Courses listed below will be offered as electives in support of other major programs.

Requirements for a minor in German include the following courses: German 101, 102, 103, 104, 301, and one additional course at the 300 level.

- 101. ELEMENTARY GERMAN I.** Pronunciation, grammar, reading, and conversation.
- 102. ELEMENTARY GERMAN II.** Continuation of German 101.
- 103. INTERMEDIATE GERMAN I.** Reading and discussion of modern German prose and poetry, grammar review, composition, and conversation. *Prerequisite: German 102 or equivalent.*
- 104. INTERMEDIATE GERMAN II.** Continuation of German 103.
- 110. INTENSIVE STUDY OF GERMAN.** A one-quarter course covering the materials normally presented in German 102 and 103. *Prerequisite: German 101 or equivalent.* (10 units)
- 115. INTENSIVE STUDY OF GERMAN.** An intensive one-quarter course in German covering the material normally presented in German 101, 102 and 103. *Prerequisite: consent of instructor.* (15 units)  
*All upper-division courses with the exception of those in translation are conducted in German.*
- 301. ADVANCED GERMAN I.** Development of correct pronunciation and speaking style. Oral reports and class discussion based on reading and analysis of literary works. *Prerequisite: German 104 or equivalent.*
- 302. ADVANCED GERMAN II.** Development of good writing and expressive vocabulary. Study and application of the characteristics of German critical writing. Written assignments based on reading of literary works. *Prerequisite: German 104 or equivalent.*
- 304. GERMAN CLASSICISM.** Drama and poetry of Goethe and Schiller; study of selected critical works. *Prerequisite: German 104 or equivalent.*
- 308. READINGS IN GERMAN LITERATURE.** The study of a selected literary genre or writer. *Prerequisite: German 104 or equivalent.*

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## Russian

Courses listed below will be offered as electives in support of other major programs.

- 101. ELEMENTARY RUSSIAN I.** Pronunciation, grammar, reading and conversation.
- 102. ELEMENTARY RUSSIAN II.** Continuation of Russian 101.

## Foreign Languages

- 103. INTERMEDIATE RUSSIAN I.** Grammar, composition and conversation; discussion in Russian of literary texts. *Prerequisite: Russian 102 or equivalent.*
- 104. INTERMEDIATE RUSSIAN II.** Continuation of Russian 103.
- 110. INTENSIVE STUDY OF RUSSIAN.** A one-quarter course covering the materials normally presented in Russian 102 and 103. *Prerequisite: Russian 101 or equivalent.* (10 units)
- 115. INTENSIVE STUDY OF RUSSIAN.** An intensive one-quarter course in Russian covering the material normally presented in Russian 101, 102 and 103. *Prerequisite: consent of instructor.* (15 units)

## Spanish

Requirements for the major: thirteen courses in Spanish or their equivalent, including Spanish 301 and 302, two survey courses in Spanish literature, one course in civilization, one survey course in Spanish-American literature and two courses at the 500 level. One course in foreign literature in translation will be accepted toward the major.

Requirements for a minor in Spanish: Spanish 101, 102, 103, 104, 301, and 302.

*Several important changes in the Spanish major and minor programs were being considered when this Bulletin was being printed. Interested students should contact the department for details.*

- 101. ELEMENTARY SPANISH I.** Pronunciation, grammar, reading, and conversation.
- 102. ELEMENTARY SPANISH II.** Continuation of Spanish 101.
- 103. INTERMEDIATE SPANISH I.** Grammar, composition, and conversation; discussion in Spanish of literary texts. *Prerequisite: Spanish 102 or equivalent.*
- 104. INTERMEDIATE SPANISH II.** Continuation of Spanish 103.
- 110. INTENSIVE STUDY OF SPANISH.** A one-quarter course covering the materials normally presented in Spanish 102 and 103. *Prerequisite: Spanish 101 or equivalent.* (10 units)
- 115. INTENSIVE STUDY OF SPANISH.** An intensive one-quarter course in Spanish covering the material normally presented in Spanish 101, 102 and 103. *Prerequisite: consent of instructor.* (15 units)
- 117. SPANISH FOR NATIVE SPEAKERS.** Elementary Spanish I. Grammar, readings, conversation.
- 118. SPANISH FOR NATIVE SPEAKERS.** Elementary Spanish II. Grammar, readings, writing. *Prerequisite: Spanish 117 or equivalent.*
- 119. SPANISH FOR NATIVE SPEAKERS.** Intermediate Spanish I. Grammar, readings, composition, communication skills. *Prerequisite: Spanish 118 or equivalent.*
- 120. SPANISH FOR NATIVE SPEAKERS.** Intermediate Spanish II. Orthography, readings, language structure and communication skills. *Prerequisite: Spanish 119 or equivalent.*

*All upper-division courses with the exception of those in translation are conducted in Spanish.*

- 301. PRACTICAL PHONETICS.** In-depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. *Prerequisite: Spanish 104 or equivalent.*

- 302. ADVANCED GRAMMAR AND SYNTAX.** Problems in grammar and syntax; practice in composition. *Prerequisite: Spanish 104 or equivalent.*
- 310. PRACTICAL SPANISH FOR THE HEALTH PROFESSIONS.** Preparation of professionals in basic conversational Spanish with emphasis on the vocabulary, the expressions and the cultural attitudes related to health. No previous knowledge of Spanish required. May not be counted toward fulfilling requirements in the major.
- 403. INTRODUCTION TO SPANISH LITERATURE I.** Survey of main literary trends and writers from the twelfth century through the sixteenth century. *Prerequisite: Spanish 104 or equivalent.*
- 404. INTRODUCTION TO SPANISH LITERATURE II.** Survey of literary genres and writers from Cervantes through the eighteenth century. *Prerequisite: Spanish 104 or equivalent.*
- 405. INTRODUCTION TO SPANISH LITERATURE III.** Survey of Spanish literature and principal writers from the nineteenth century to the contemporary period. *Prerequisite: Spanish 104 or equivalent.*
- 410. SPANISH-AMERICAN LITERATURE I.** Survey of Spanish-American literature from the time of the Spanish conquest to the end of the nineteenth century. *Prerequisite: Spanish 104 or equivalent.*
- 411. SPANISH-AMERICAN LITERATURE II.** Survey of Spanish-American literature from Modernismo to the present. *Prerequisite: Spanish 104 or equivalent.*
- 420. SPANISH CIVILIZATION.** A study of the social, political and cultural developments in Spain. *Prerequisite: Spanish 104 or equivalent.*
- 430. CULTURE AND CIVILIZATION IN SPANISH AMERICA.** A study of the social, cultural and historical evolution of Spanish America. *Prerequisite: Spanish 104 or equivalent.*
- 440. MEXICAN LITERATURE.** A study of the development of Mexican literature with emphasis on the Mexican novel. *Prerequisite: Spanish 104 or equivalent.*
- 450. MEXICAN LITERATURE IN TRANSLATION.** Critical examination of selected works of Mexican literature to the present day. Emphasis on the novel, drama, poetry and the essay. May not be taken for credit by students who have received credit for Foreign Languages 450, Literature in Translation: Mexico.
- 501. SPANISH GOLDEN AGE DRAMA.** *Prerequisite: Two survey courses including Spanish 403 or equivalent.*
- 502. SPANISH GOLDEN AGE PROSE AND POETRY.** *Prerequisite: Two survey courses including Spanish 403 or equivalent.*
- 503. CERVANTES.** *Don Quijote.* *Prerequisite: Two survey courses including Spanish 403 or equivalent.*
- 504. SPANISH NOVEL AND DRAMA OF THE NINETEENTH CENTURY.** *Prerequisite: Two survey courses including Spanish 403 or equivalent.*
- 505. SPANISH LITERATURE: GENERATION OF 1898.** *Prerequisite: Two survey courses or equivalent.*
- 506. MODERN SPANISH POETRY AND PROSE.** *Prerequisite: Two survey courses or equivalent.*
- 510. SPANISH-AMERICAN NOVEL.** *Prerequisite: One Spanish-American survey course or equivalent.*



## **Foreign Languages**

**511. SPANISH-AMERICAN DRAMA.** *Prerequisite: One Spanish-American survey course or equivalent.*

**512. SPANISH-AMERICAN POETRY.** *Prerequisite: One Spanish-American survey course or equivalent.*

## GEOGRAPHY

Geography is concerned with the spatial variations and interrelations of the natural and cultural features of the earth. Geographers study the earth primarily as the home of man. As an approach to knowledge, Geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both man and his environment. As a synthesizing discipline, Geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, Geography is especially valuable for those who plan to do graduate work. Geography offers rewarding job opportunities in teaching, business, government, the armed forces, conservation and water resources, planning and market research, and international organizations.

The Geography major involves a two-track system, Track A and Track B. Requirements for all majors include the following core: Geography 100, 103, 400, 450 and one area studies course.

Track A requires that students take, in addition to the core, five upper-division courses in Geography. Only one of these courses may be drawn from the area studies group.

Track B requires that students take, in addition to the core, five upper-division courses in Geography and/or related disciplines. These courses, selected in consultation with an advisor, must be from one of the following areas of study: urbanization, industrialization, modernization or area studies.

Requirements for a minor in Geography: six courses in Geography including the series 100, 103, 400. The remaining three courses can be chosen from any of the upper-division Geography offerings with the restriction that only one can be an area study.

**100. INTRODUCTION TO GEOGRAPHIC STUDIES: HUMAN DEVELOPMENT AND SETTLEMENT.** Analysis of human society as expressed through man's occupance and utilization of the land.

**103. PHYSICAL GEOGRAPHY.** Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Lecture and laboratory.

**301. CARTOGRAPHY.** Provides students with necessary drafting skills to construct maps, charts and graphs as well as training in map interpretation. *Prerequisite: consent of instructor.*

**303. AREA STUDY: ANGLO-AMERICA.** Regional analysis of socio-economic development and environmental problems.

## Geography

- 306. AREA STUDY: WESTERN EUROPE.** Regional analysis of socio-economic development and environmental problems.
- 309. AREA STUDY: SOVIET UNION.** Regional analysis of socio-economic development and environmental problems.
- 321. AREA STUDY: LATIN AMERICA.** Regional analysis of socio-economic development and environmental problems.
- 324. AREA STUDY: AFRICA.** Regional analysis of socio-economic development and environmental problems.
- 340. HISTORICAL GEOGRAPHY.** Concepts and methods of analyzing the sequential patterns of human occupance. Illustrated with case studies.
- 350. CONSERVATION AND NATURAL RESOURCES.** Principles of resource utilization and ecology as they involve human development and politico-economic policy.
- 400. SPATIAL DIMENSIONS OF HUMAN ORGANIZATION.** The study of human organization as defined by location; spatial patterns, spatial integration and regions.
- 410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT.** Application of concepts of location, spatial organization and spatial interaction to regional planning and resource development.
- 130 420. GEOGRAPHY OF ECONOMIC ACTIVITY.** Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization.
- 430. GEOGRAPHY OF AGRICULTURAL ACTIVITY.** Covers agricultural patterns, on a thematic basis, as keys to understanding human economic organization.
- 440. URBAN GEOGRAPHY.** Description and classification of cities, analysis of their distribution, and a study of the external and internal relations of urban areas.
- 450. DEVELOPMENT OF GEOGRAPHIC THOUGHT.** Changing ideas and methods of geographic analysis.
- 550. SEMINAR IN GEOGRAPHY.** Intensive study of some phase of geography. May be repeated for credit with instructor's consent.
- 555. INDEPENDENT STUDY.**

## HEALTH SCIENCE

The College is planning to add the degree program, B.S. in Health Science, to its curriculum. Latest information on these plans can be obtained from the Department of Health Science and Human Ecology. The courses listed below are being offered currently and are expected to become a part of the proposed degree program.

**120. INTRODUCTION TO HEALTH SCIENCE.** Analysis of major health problems designed to contribute to the student's understanding of his role as an individual and as a contributing member of the community's efforts to implement the advances of medicine and the health sciences.

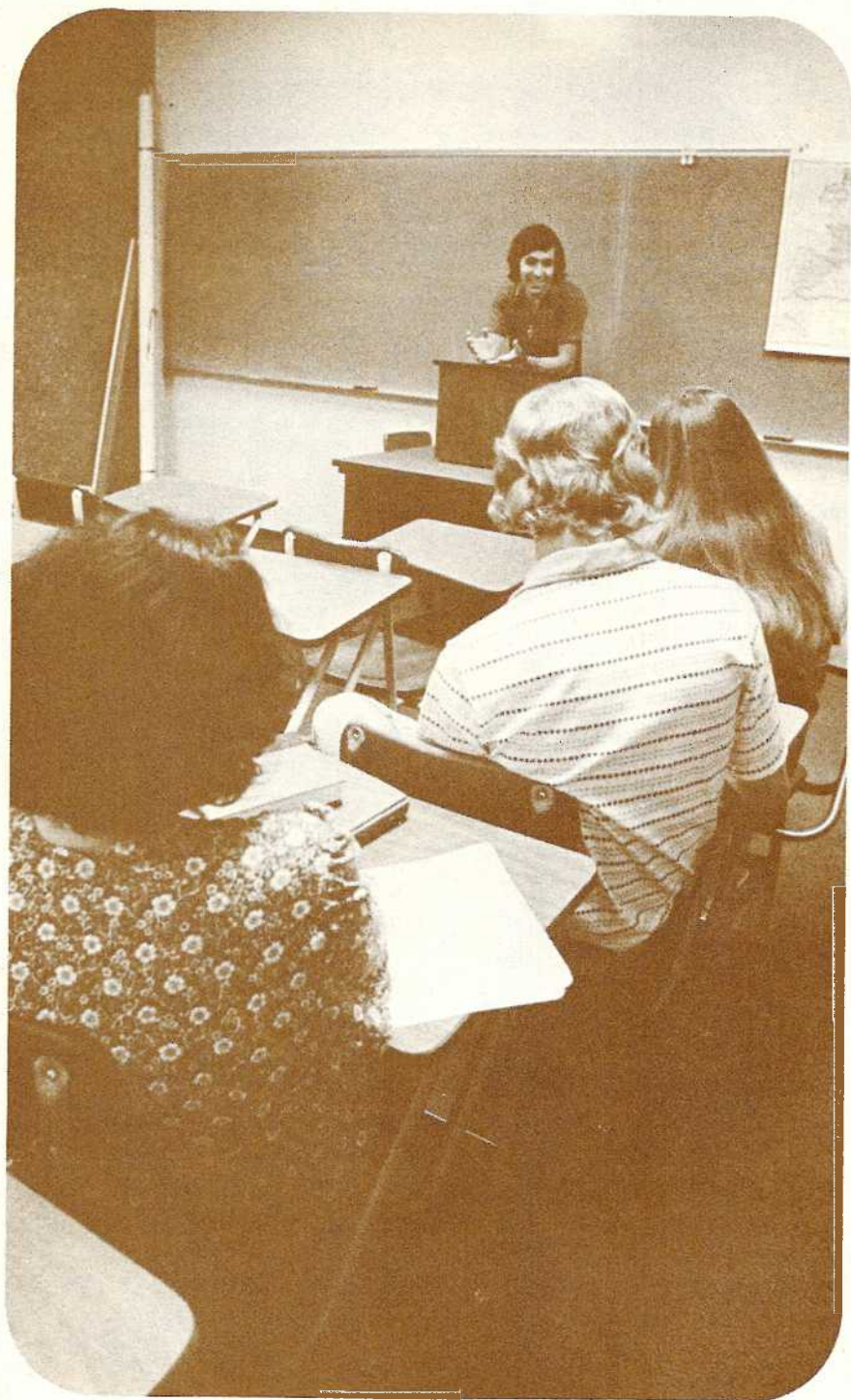
**366. OCCUPATIONAL HEALTH.** Historical background of workers, their job environments and associated illnesses. Evolution of labor laws, workmen's compensation, and health and safety standards. Modern concepts, threshold limits and occupational hazards. *Prerequisite: Health Science 120 or equivalent.* (2½ units)

**371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES.** Consideration and comparison of traditional and current programs in official and voluntary health agencies.

**451. COMMUNITY HEALTH: AN EPIDEMIOLOGICAL APPROACH.** A study of the practical, administrative and planning aspects and uses of epidemiology particularly as it relates to the areas of medical, nursing, nutritional, environmental and public administration. The course examines the distribution and dynamics of human health problems and explores the principles and procedures of scientific investigation used to determine circumstances under which disease occurs or health prevails. In addition to the classical concern about infectious diseases and their role on social upheavals, the broadened scope of epidemiology is examined.

**470. COMMUNITY HEALTH EDUCATION.** Undergraduate seminar concerned with factors that influence decision-making about health; barriers to changing health behavior; effective use of community health agencies as vehicles of change. *Prerequisite: Health Science 120 or equivalent.* (2½ units)





## HISTORY

History has been called the "extension of memory" which enables one to utilize past experiences. History, of course, is for the prospective teacher; it also provides excellent training for a future in law, journalism, politics or governmental careers. In short, history is for everyone.

The History department has developed a major around a core of five courses which present a broad survey of American and European history and an introduction to the nature of historical study. To meet the remainder of the requirements for the major, the student may choose from a wide spectrum of courses.

Currently, the department consists of faculty specializing in the areas of American, European, Latin American and African history. Majors are also offered optional programs emphasizing Black or Mexican-American Studies.

Requirements for the major: ten courses in History, including History 200, 201, 300, 301 and 490, and at least five other upper-division courses in History. With the approval of the departmental advisor, up to two upper-division courses in related fields may be counted toward the upper-division course requirement in History. Students who are interested in Latin American or European history are encouraged to take a complete sequence of courses in the appropriate language.

Requirements for a minor in History: History 200, 201, 300 and 301, plus two upper-division courses selected in consultation with an advisor.

A degree in History with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration; three of the courses must be in history. Courses specified will be listed as an option contract to be filed with the Dean of Academic Planning.

The College now offers a Master of Arts in Education, with an option in History, for secondary teachers. Details on this graduate program may be secured from the department or the School of Education.

**200. UNITED STATES HISTORY TO 1877.** A survey of the history of the United States from the colonial beginnings to 1877. This course meets the State Code requirement in United States History, Constitution and American ideals.

**201. UNITED STATES HISTORY, 1877 TO THE PRESENT.** A survey of the history of the United States from 1877 to the present.

**300. EARLY MODERN EUROPE, THE RENAISSANCE TO 1815.** The institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars.

**301. MODERN EUROPE, 1815 TO THE PRESENT.** The institutions, culture, and political development of Europe from the Congress of Vienna to the present.

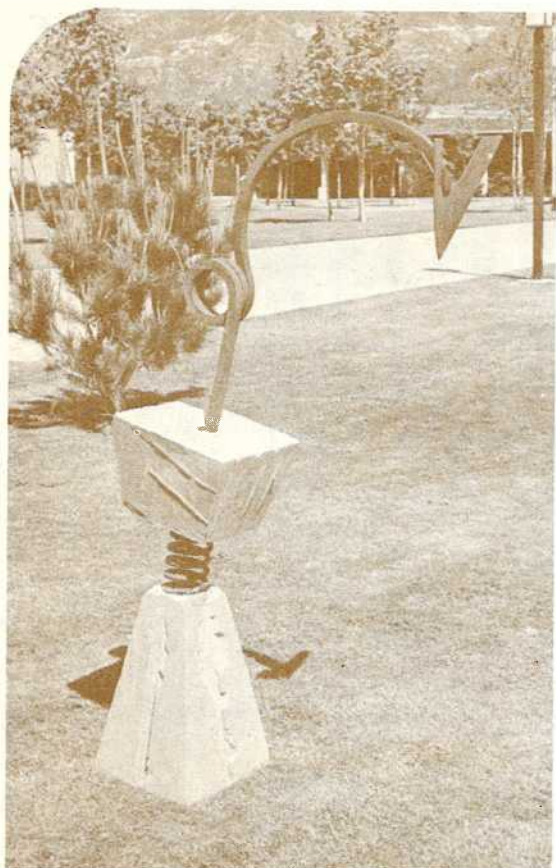
## History

- 320. ANCIENT HISTORY I.** The history of the ancient world from the beginning of Egyptian civilization (c. 5000 B.C.) to the death of Alexander the Great (323 B.C.).
- 321. ANCIENT HISTORY II.** The history of the ancient world from 323 B.C. to the conversion of Constantine to Christianity (312 A.D.).
- 331. BLACK HISTORY I.** The origin of sub-Saharan cultures and the development of African civilizations through the 18th century; special emphasis is placed on West Africa and the region's relationship to Black people of North America.
- 332. BLACK HISTORY II.** History of the Black people in America through World War I, including the experience of slavery, contributions of Blacks to American society and the effects of the attitudes and policies of the majority.
- 333. BLACK HISTORY III.** The Black people in America since World War I, with an emphasis on the changing nature of the Black community, the Civil Rights struggle and the rise of Black Nationalism.
- 350. THE AMERICAN COLONIES, 1607-1783.** A history of the thirteen colonies from European origins to the attainment of independence.
- 352. THE EARLY REPUBLIC.** A history of the United States from the Confederation through the administration of Van Buren. This course meets the State Code requirement in United States history, constitution and American ideals.
- 354. CIVIL WAR AND RECONSTRUCTION.** The background and causes of the Civil War and the problems of Reconstruction.
- 356. THE UNITED STATES, 1877-1917.** A history of the transformation of the nation between the end of Reconstruction and entrance into World War I.
- 358. MODERN AMERICA.** A study of the principal developments in American life since the first World War.
- 370. HISTORY OF CALIFORNIA.** The political, economic, and social development of California from Spanish times to the present. This course meets the State Code requirement in California state and local government.
- 390. HISTORY OF MEXICO.** Survey of Mexican history from early Indo-American civilizations to the present.
- 391. CHICANO HISTORY.** The history of the Mexican-American in the United States from the Colonial period to the present, with special emphasis on the Southwest.
- 402. RENAISSANCE AND REFORMATION.** Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648.
- 403. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT.** A study of the period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas.
- 405. EUROPE IN THE NINETEENTH CENTURY.** A study of the political, social and intellectual changes of the period 1815 to 1914.
- 406. TWENTIETH CENTURY EUROPE.** A history of Europe from the outbreak of the first World War to the present.
- 420. ECONOMIC HISTORY OF THE UNITED STATES.** The economic history of the United States from the founding of the colonies to the present.
- 469. COLONIAL LATIN AMERICA.** Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period.



- 470. MODERN LATIN AMERICA.** A survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America.
- 480. SUB-SAHARAN AFRICA SINCE 1800.** Survey of Sub-Saharan Africa in the 19th and 20th centuries. Emphasis on purely indigenous developments, response of African societies to European penetration and development of nationalism and Pan-Africanism.
- 490. THE STUDY OF HISTORY.** An introduction to the nature of History through a consideration of the problems of historical knowledge and of the works of major historians of the past.
- 500. TUDOR AND STUART ENGLAND.** A history of the principal political, economic, religious and intellectual developments of England from 1485 to 1714.
- 504. MODERN BRITAIN.** A history of Great Britain from the accession of the Hanoverian dynasty to the present.
- 506. RUSSIA TO 1855.** Russian history from earliest times to 1855.
- 508. RUSSIA SINCE 1855.** History of the last years of the empire and origins and development of the Soviet Union.
- 510. FRANCE SINCE 1815.** A history of French culture and politics from the fall of Napoleon to the present.
- 514. GERMANY SINCE 1815.** A history of German culture and the emergence of the German state from the Congress of Vienna to the present.
- 540. CONSTITUTIONAL HISTORY OF THE UNITED STATES.** A history of American constitutional development from English and European origins to the present day. This course meets the State Code requirement in United States history, constitution and American ideals. *Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor.*
- 552. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES.** Topics in the history of American civilization including the development of American society, thought and culture. May be repeated for credit with consent of instructor.
- 555. INDEPENDENT STUDY.** Special topics in historical research. *Prerequisites: departmental approval of a written proposal and consent of instructor.*
- 556. FOREIGN RELATIONS OF THE UNITED STATES.** A survey of American foreign policy with special emphasis on America's rise to world power in the twentieth century.
- 560. HISTORY OF THE AMERICAN WEST.** A survey of the western expansion of the American nation.
- 565. ETHNIC MINORITIES IN AMERICAN HISTORY.** Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society.
- 570. AMERICAN URBAN HISTORY.** Historical consideration of the city in U. S. history from colonial times to the present.
- 593. SEMINAR IN HISTORY.** Intensive study of some phase of history. May be repeated for credit with consent of instructor.
- 596. SEMINAR IN BLACK HISTORY.** Study of some phase of American history to be developed by the instructor with the class. May be repeated for credit, with consent of instructor.





## HUMANITIES

Requirements for the major: six upper-division courses in either Category A or B; four upper-division courses in the other. Category A includes art, music and drama courses not cross-listed with English; Category B includes English, a foreign language (French, German, Russian or Spanish at present), philosophy. The major also requires four full-term courses in a foreign language or equivalent proficiency and Humanities 400, which must be taken during the senior year.

**330. ARTS AND IDEAS.** An interdisciplinary exploration of several ways in which different arts exhibit ideas and various ideas stimulate our understanding of and pleasure in the arts.

**333. MYTH AND EPIC.** Myths and epics of folklore and of classical and Eastern literatures, emphasizing relationship to later Western literature.

**350. LITERARY AND CULTURAL TRADITIONS OF WESTERN EUROPE.** Major Western European aesthetic tendencies as seen in selected literary masterpieces and as reflected in art, architecture and music.

**353. POPULAR CULTURE.** The significance and context of popular modes of art and entertainment focusing on selected periods, such as the rock generation.

**400. HUMANITIES SEMINAR.** A seminar considering the various ways (particularly through philosophy, literature and the arts) in which people deal with "human experience." *Prerequisite: senior standing or consent of instructor.*

**401. UTOPIA: THE IDLE DREAM?** The nature of utopias, the circumstances fostering their conception, and the extent to which purpose, deceit and desire go into their making. A seminar course open to students in all majors.

**402. INDIVIDUALITY OR CONFORMITY; ALIENATION OR COMMUNITY.** Readings from literature, philosophy and social analysis as the basis for discussion of the crisis in the individual's sense of himself and in his relation to others. A seminar course open to students in all majors.

**403. TECHNOLOGY VERSUS THE PASTORAL IDEAL IN AMERICAN LITERATURE.** Impact of industrialism on the American ethos as seen in such representative works of fiction and non-fiction as *Walden*, *The Gilded Age*, *Huckleberry Finn*, *The Education of Henry Adams*, *The Octopus*, *The Machine in the Garden* and *The American Adam*. A seminar course open to students in all majors.

**404. ASSUMPTIONS, METHODS AND PROBLEMS IN THE NATURAL AND SOCIAL SCIENCES.** Analysis of typical 20th-century works in the natural and social sciences in order to examine such problems as moral relativism in anthropological literature, Freud and psychoanalytic explanations of art and religion, mechanical technique and creative invention in mathematics, and theories of evolution. A seminar course open to students in all majors.

**405. CREATIVE MAN.** Processes of creativity are explored through reading, discussion, experimentation and examination of relevant examples from the arts. A seminar course open to students in all majors.

## Humanities

- 419. MYTH, METAPHOR AND SYMBOL.** Modes of expression in the natural sciences, the social sciences and the arts. A seminar course open to students in all majors.
- 420. THE DEATH OF GOD.** Implications of Nietzsche's statement "God is Dead!" with references to the alternatives available to modern man on the meaning and purpose of life. A seminar course open to students in all majors.
- 422. VIOLENCE, REVOLUTION AND PROGRESS.** Theoretical defenses and criticisms of violence and revolution as a means of social improvement. A seminar course open to students in all majors.
- 423. SONGS OF THE ROCK GENERATION.** Significance of popular music in the '60's; technology and media in contemporary America; formal and historical elements in the songs of Dylan, Lennon, McCartney, Simon and others. A seminar course open to students in all majors.
- 460. CULTURE STUDIES.** Aspects of culture, language and civilization with emphasis upon major factors shaping national tradition. May be repeated for credit as topics change.
- 470. NATURE OF LANGUAGE.** Nature and development of languages as a means of human communication and as a form of cognition.
- 480. INTRODUCTORY LINGUISTICS.** Scientific study of language as a system: sound, meaning and word-ordering systems; sub-systems (dialects), writing systems.
- 138 498. STUDIES IN HUMANITIES.** Selected topics in general and interdisciplinary studies. Course open to seniors of any major who, after completion of their graduation requirement check, require one or two units toward graduation. (2 units)
- 501. SEMINAR IN CHICANO STUDIES.** Study of some phase of Mexican-American studies in the Humanities. *Prerequisites: advanced standing and consent of instructor.*

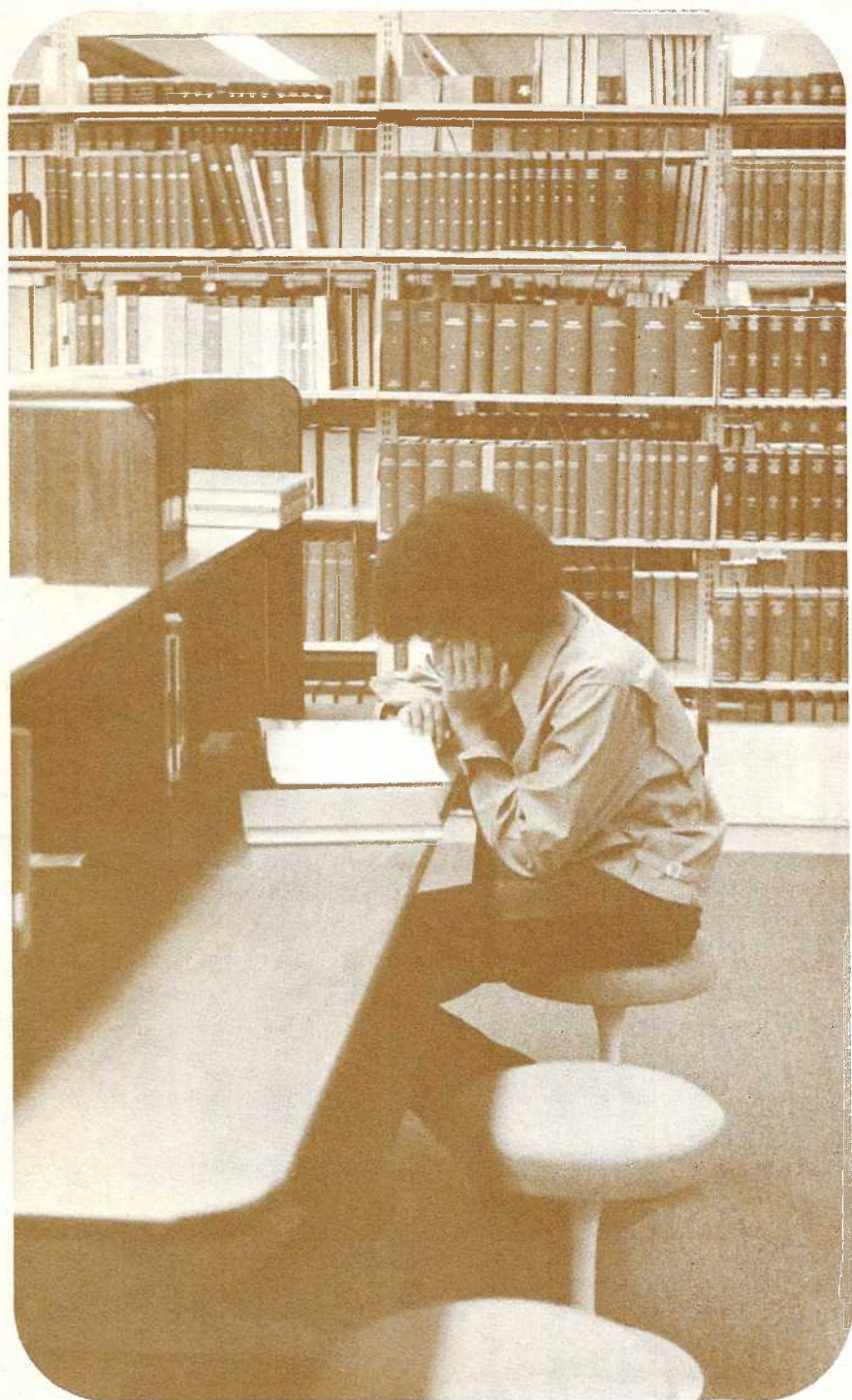
## INTERDISCIPLINARY STUDIES

The College is developing a limited number of courses outside of its departmental and school structure. The courses listed below are designed specifically to meet upper-division general education requirements (see Page 60).

**320. SCIENCE AND THE HUMANITIES.** A survey of the many links between the natural sciences and the humanities (the arts, literature, history and philosophy).

**388. SPECIAL COMPREHENSIVE EXAMINATION IN UPPER-DIVISION GENERAL EDUCATION.** This covers independent study of selected readings drawn from many disciplines in the natural sciences, social sciences and humanities, interrelated on the topic "The Arts and Sciences as Human Activities." No class meetings; study guides provided at registration outline entire quarter's work. Six-hour examination at end of term. (10 or 15 units)





## LIBERAL STUDIES

The B.A. in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests are for a more broadly based liberal arts curriculum than is possible through existing disciplines. Although the program is open to all students, it should prove of particular value to those who plan to enter the elementary teaching field. The program is outlined below:

Basic program	126 units
English (including grammar, literature, composition and speech) .....	32
Mathematics and the physical and life sciences.....	30
Social sciences .....	32
Humanities and the fine arts (including foreign languages) .....	32
Field of concentration.....	18
Physical education activity .....	6
Free electives .....	36
	<hr/>
	186 units

141

A student electing to complete the B.A. in Liberal Studies is also required to meet the General Education requirements. A careful selection of courses within the major, including electives, will enable the student to complete the General Education requirements, as well as the major, without additional course work.

By an appropriate selection of course work in the basic program, the field of concentration and the free electives, the following objectives may be achieved:

1. Completion of a second major in certain fields.
2. Completion of the professional education requirements leading to a multiple subjects teaching credential.
3. By deferment of some course work to a fifth year, a three-fold objective: completion of the B.A. in Liberal Studies, a second major and the professional education requirements for the multiple subjects teaching credential.

### *Basic Program*

The basic program for the B.A. in Liberal Studies is divided into four broad categories. Within each of these four, the course work is further subdivided into courses in required areas and elective courses.

## Liberal Studies

### English (32 units)

Two courses in composition:

English 101

English 393 (English 396 may be a substitute)

One course in literary analysis:

English 301 or 302 or 303

One course in language:

English 500 or 505

Three electives:

Two must be upper-division. Selections are to be made from the course offerings of the Department of English; Drama 120 and 210 are also acceptable.

### Humanities (32 units)

One course in the arts:

Art 200 or Drama 250 or Music 180

Two courses in letters:

English 110, 111 and 170; Foreign Language 450; French 101-102-103; German 101-102-103; Russian 101-102-103; Spanish 101-102-103, and 450; Philosophy 190

Humanities activity (2 units):

To be chosen from Art 201-202-203, 204, 304, 354-355, 350-371, 395-396, 482; Drama 320; Music 200, 205, 220-221-222, 310

Three electives:

Two must be upper-division. Selections are to be made from the course offerings of the School of Humanities (excluding the Department of English).

### Social Sciences (32 units)

Three courses in civilization:

Social Sciences 140, 142, 144, 146, 150, 155, 160

Social Sciences 498

Three electives:

Two must be upper-division. Selections are to be made from the course offerings of the School of Social Sciences.

### Natural Sciences and Mathematics (30 units)

One course in basic mathematics:

Mathematics 100 or 101 or 200

One course in applied mathematics:

Mathematics 150 or Mathematics 301 or Natural Sciences 140

One course in life sciences:

Biology 100 or 202

One course in physical sciences:

Chemistry 100; Earth Science 101; Natural Sciences 100; Physics 100

**Two electives:**

One must be upper-division. Selections are to be made from the course offerings of the School of Natural Sciences.

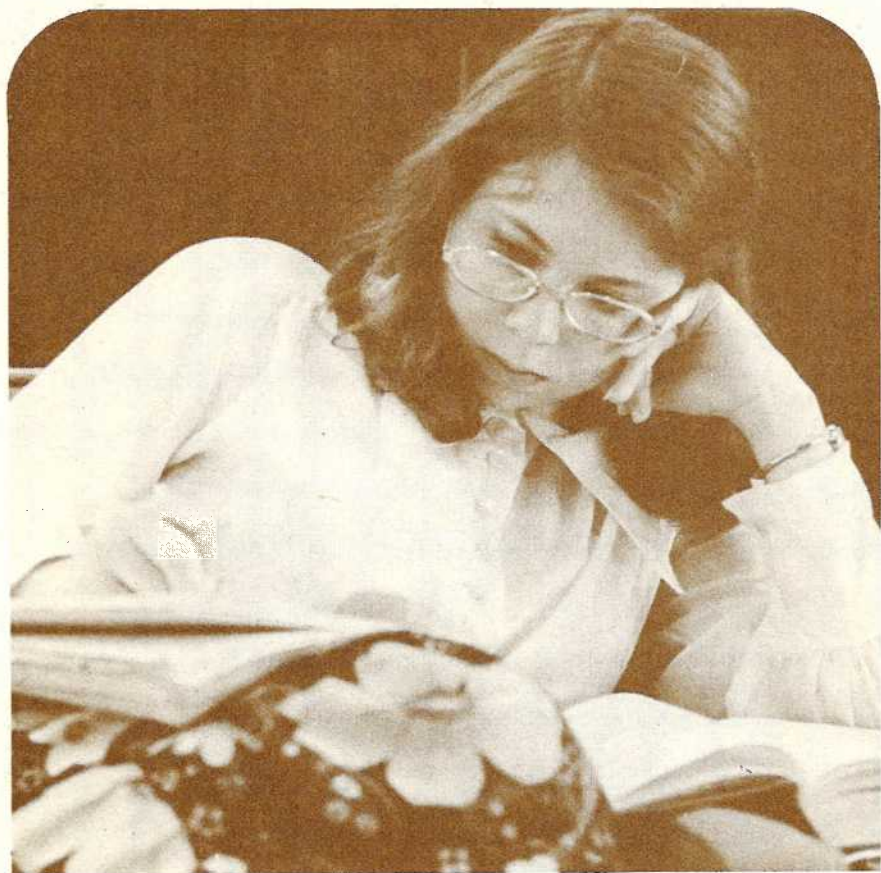
*Field of Concentration*

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement, to be selected in consultation with an advisor, must be from a single one of the disciplines below:

Art	Administration	Biology
Drama	Anthropology	Chemistry
English	Economics	Mathematics
French	Geography	Physics
Music	History	
Philosophy	Political Science	
Spanish	Psychology	
	Sociology	

An alternative is also possible for the field of concentration. In consultation with an advisor, courses may be chosen to develop a coherent program in one of the following fields: bilingual/cross-cultural studies, child development, environmental studies, humanities, social sciences.





## MATHEMATICS

The role of mathematics in society is rapidly growing. New mathematical methods are making an ever wider range of problems amenable to quantitative treatment, thus stimulating new applications, especially in the social, behavioral, management and biological sciences. The computer, with its ability to process formerly unmanageable masses of data and to perform prodigious computational chores, has freed the mathematician to attack problems arising in such diverse areas as industrial management, medical research, environmental studies, ecology, psychology and space exploration.

The mathematics program at California State College, San Bernardino prepares students for careers utilizing applied mathematics, such as oceanography, biostatistics, and computer design and analysis. The program also prepares students interested in teaching, and for others it provides the well-rounded background necessary for graduate work in mathematics and the social and physical sciences.

Requirements for the major: eleven courses in Mathematics including Mathematics 200, 201, 202, 203, 311, 312, 331, 551 and three upper-division electives, not to include Mathematics 301, 410 or 499, chosen in consultation with the advisor. Physics 211, 212 and 213 are recommended for Mathematics majors.

The required core of the major program (Mathematics 311, 312, 331, 551) is designed to provide a solid background for a student planning a career as either an applied mathematician or secondary mathematics teacher or planning to study mathematics on the graduate level.

*Departmental Honors:* The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The sole criterion will be the student's ability to do quality independent work in mathematics. One or more of the following types of activities will be required in order for a student to be considered: (1) completion of Mathematics 595 Independent Study, (2) completion of independent study assignments in regular upper-division mathematics courses, (3) challenge by examination of upper-division mathematics courses; and (4) extracurricular independent study projects. Mathematics 595 Independent Study will be offered on demand. Majors planning to enroll should request department consent and assignment of a project one term in advance of the term in which the course will be taken.

Requirements for a minor in Mathematics: Mathematics 200, 201, 202, 203, 311, 312, 331 and 551.

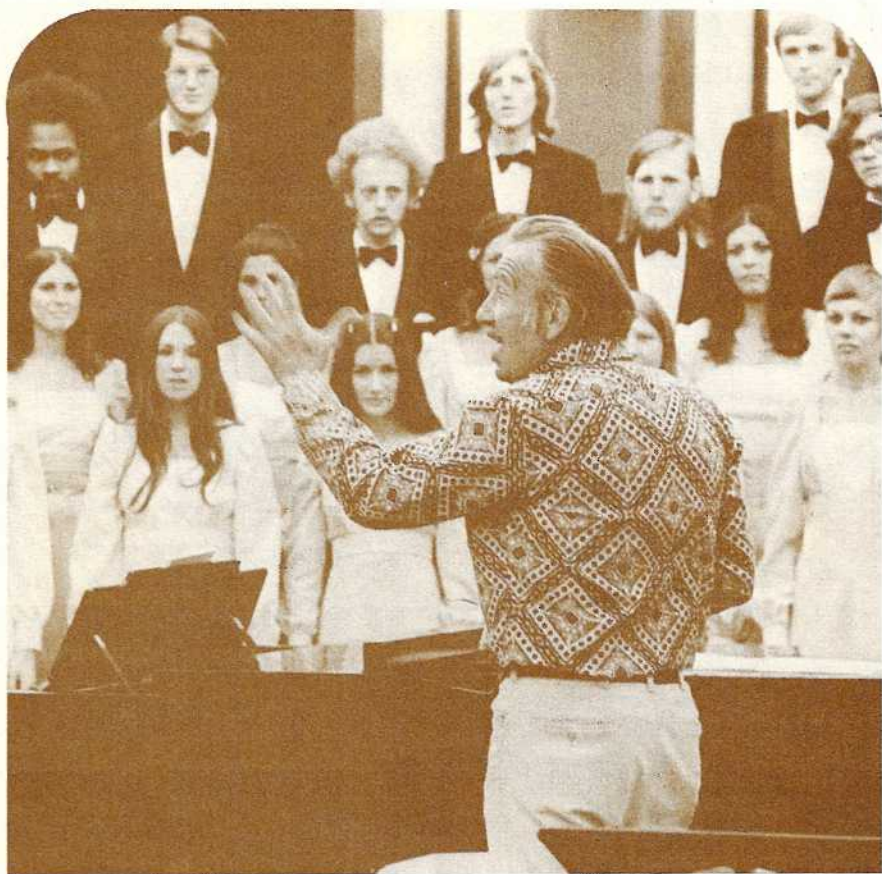
## Mathematics

- 100. THE IDEAS OF MATHEMATICS.** Topics include inductive and deductive reasoning, mathematical patterns, methods of counting, basic concepts of probability and statistics.
- 101. PRE-CALCULUS MATHEMATICS.** Inequalities; absolute value; algebraic, logarithmic, trigonometric and exponential functions; miscellaneous topics. *Prerequisites: plane geometry and two semesters of high school advanced algebra or their equivalent.*
- 110. INTRODUCTION TO COLLEGE MATHEMATICS.** Set theory, inequalities, absolute value, algebraic functions, graphing, systems of equations, linear algebra.
- 150. ELEMENTARY STATISTICS.** A course in the basic principles of statistics with applications to the natural and behavioral sciences. *Prerequisite: a year of high school advanced algebra or its equivalent.*
- 200. BASIC CONCEPTS OF CALCULUS.** An introduction to differentiation and integration of functions in one variable, with applications.
- 201. CALCULUS II.** Transcendental functions, formal integration, differentials and the law of the mean, fundamental theorem of integral calculus, arc length and curvature, physical applications, improper integrals. *Prerequisite: Mathematics 200 with a grade of C or better or consent of the department chairman.*
- 202. CALCULUS III.** Curve sketching, areas, arc lengths, and curvature in polar coordinates; solid analytic geometry and vector calculus; partial differentiation and multiple integration with applications to geometry and physics. *Prerequisite: Mathematics 201 with a grade of C or better or consent of the department chairman.*
- 203. CALCULUS IV.** Sequences, infinite series and expansion of functions; the elements of ordinary differential equations including the general linear equation with constant coefficients; applications. *Prerequisite: Mathematics 202 with a grade of C or better or consent of the department chairman.*
- 301. MODERN ARITHMETIC.** The study of various mathematical systems and their arithmetics. This course is designed for non-mathematics majors.
- 311. INTRODUCTION TO ABSTRACT ALGEBRA I.** Axiomatically defined real number system and its subsystems; mappings and relations; abstract systems. *Prerequisite: consent of advisor.*
- 312. INTRODUCTION TO ABSTRACT ALGEBRA II.** Groups, rings and fields. *Prerequisite: Mathematics 311 or consent of instructor.*
- 331. LINEAR ALGEBRA.** Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic and Hermitian forms; applications. *Prerequisite: Mathematics 203 or consent of instructor.*
- 401. TOPICS IN APPLIED MATHEMATICS I.** The study of topics in mathematics applicable to the physical sciences. *Prerequisites: Mathematics 331 and Physics 213 or consent of instructor.*
- 402. TOPICS IN APPLIED MATHEMATICS II.** The study of topics in mathematics applicable to the physical sciences. *Prerequisite: Mathematics 401.*
- 410. MATHEMATICAL MODELING.** Applications in science, ecology, industry, business, medicine, education and libraries. Trends in computer technology and their impact on society. Computer simulations using models in demography, economics and ecology. *Prerequisite: two years of high school algebra.* This course is designed for non-mathematics majors.



- 420. NUMERICAL METHODS.** Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. *Prerequisites: Mathematics 203 and Natural Sciences 135 or equivalent.*
- 444. PROBABILITY AND STATISTICS I.** The mathematical theory of probability and statistics with application to the problems of sampling and decision making. Axiomatic development of probability; discrete random variables and their probability distributions with emphasis on the Bernoulli and Poisson distributions; discrete stochastic processes. *Prerequisites: Mathematics 203 and either 311, 331, or consent of instructor.*
- 445. PROBABILITY AND STATISTICS II.** The mathematical theory of probability and statistics with application to the problems of sampling and decision making. Continuous random variables and their probability distributions; moment generating functions; the normal,  $t$ , chi-square, and  $F$  distributions applied to testing hypotheses. *Prerequisites: Mathematics 444 and consent of instructor.*
- 499. METHODS AND MATERIALS IN THE TEACHING OF MATHEMATICS.** May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330; senior or graduate standing, and admission to the teacher credential program.*
- 539. GEOMETRY.** Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. *Prerequisites: Mathematics 312 and 331 or consent of instructor.*
- 551. ANALYSIS I.** Continuous and differentiable functions; infinite series; Riemann and improper integrals. *Prerequisites: Mathematics 203 and 311 or consent of instructor.*
- 552. ANALYSIS II.** Uniform convergence, computation with series, functions represented by integrals, Fourier series, Lebesgue measure and integration. *Prerequisite: Mathematics 551 or consent of instructor.*
- 556. ORDINARY DIFFERENTIAL EQUATIONS.** First order equations, systems of first order equations, fundamental existence and uniqueness theorems; linear equations, existence and uniqueness theorems for linear equations; boundary value problems, oscillation theorems, special functions, stability theory. *Prerequisite: Mathematics 331 or consent of instructor.*
- 561. FUNCTIONS OF A COMPLEX VARIABLE.** Complex numbers, derivatives and integrals of analytic functions, the geometry of elementary functions, Cauchy's integral theorem and formula; Laurent expansions and evaluation of contour integrals by residues. *Prerequisite: Mathematics 311 or consent of instructor.*
- 568. NUMBER THEORY.** Topics from the theory of numbers including congruences, Diophantine equations, and a study of prime numbers. *Prerequisite: Mathematics 312 or consent of instructor.*
- 572. MODERN ALGEBRA.** Polynomials over integral domains, algebraic and transcendental extension of number fields, Galois theory. *Prerequisite: Mathematics 312.*
- 581. TOPOLOGY.** An introduction to point set topology; general topological and metric spaces. *Prerequisite: Mathematics 312.*
- 595. INDEPENDENT STUDY.** An independent study course for senior mathematics majors. A total of six units in Mathematics 595 may be applied toward graduation. *Prerequisites: Mathematics 312, 331, 551 and consent of department and instructor. (Credit to be arranged: 1 to 6 units)*





The contemporary musician has a potential access to more different kinds of music than ever before in history. The music curriculum—with programs in performance practice, world music, opera, electronic music, as well as historical studies, music education and an integrated theory program—is reflective of that diversity.

In order to avoid prescribed programs that would apply to all students, required courses for music majors have been kept at a minimum and prerequisites are relatively few. This allows the student to make most of the decisions that will ultimately affect his musical future, whether it be in performance, composition, music education, graduate study, or any of the other areas open to today's musician. Faculty advisors work to develop a successful program for each student.

Further information for music majors may be found in the department's Student Handbook.

Many of the course offerings will be of benefit to the general student, and all students are encouraged to participate in choral and instrumental organizations.

Requirements for the major: twelve full-term courses in Music, including 111, 112, 113, 314, 315; the remaining seven courses (35 units) must include a minimum of three units of applied music at the upper-division level. Proficiency in piano is required and may be demonstrated by satisfactory completion of a placement exam or Music 222. A maximum of 15 units in applied music or courses listed under Music Education may be included in the total requirements.

Students majoring in music are required to complete successfully six repertory listening examinations—a different one given at the end of each quarter—and are encouraged to participate in the department's informal tutorial reading program.

Requirements for a minor: Music 100; 180; at least one course in World Music (Music 350, 351, 360); two other full-term music courses, one of which must be upper-division Music 220; and the successful completion of three repertory listening examinations.

### **THEORY**

The integrated music theory courses are the core of a program which seeks to develop in the student the ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music.

## Music

- 100. BASIC MUSICIANSHIP.** Rudiments of music: pitch, rhythm, scales, melody; sight-singing, dictation and introductory keyboard activity. Course provides necessary background for enrollment in theory program; is a fundamental course for the general student. Credits may not be counted toward fulfilling requirements of the major.
- 111. THEORY I.** Basic materials of music and how they combine to create musical structures, analysis of representative works and an attempt to develop both the musical ear and some keyboard facility. *Prerequisite: Music 100 or equivalent or placement examination.*
- 112. THEORY II.** Continuation of Theory I. *Prerequisite: Music 111 or equivalent or consent of instructor.*
- 113. THEORY III.** Continuation of Theory II. *Prerequisite: Music 112 or equivalent or consent of instructor.*
- 314. THEORY IV.** Melody, harmony and texture as they relate to musical structures; extension of tonality and its eventual evolution into 20th century practice; analysis of representative compositions; continuation of ear and keyboard training. *Prerequisite: Music 113 or equivalent or consent of instructor.*
- 315. THEORY V.** Continuation of Theory IV. *Prerequisite: Music 314 or equivalent or consent of instructor.*
- 542. STUDIES IN MUSICAL ORGANIZATION.** Intensive study of one aspect of musical organization: tonal, melodic or rhythmic. Content will vary. May be repeated for credit. *Prerequisite: satisfactory completion of Music 315 or equivalent.*

## HISTORY AND LITERATURE

These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized. Courses are not sequential.

- 180. STUDIES IN MUSIC.** Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis.
- 320. TWENTIETH CENTURY MUSIC.**
- 321. MUSIC IN THE CLASSIC ERA.**
- 322. MEDIEVAL AND RENAISSANCE MUSIC.**
- 323. NINETEENTH CENTURY MUSIC.**
- 324. BAROQUE MUSIC.**
- 325. OPERA.**
- 400. STUDIES IN COMPOSERS.** Intensive study into works of a particular composer. Content will vary. May be repeated for credit.
- 402. STUDIES IN FORMS.** Intensive study into a particular form. Content will vary. May be repeated for credit.
- 405. SEMINAR IN CHORAL LITERATURE AND CONDUCTING.** *Prerequisite: completion of Music 113 or consent of instructor.*

**407. STUDIES IN ORCHESTRAL LITERATURE AND ORCHESTRATION.** *Prerequisite: completion of Music 113 or consent of instructor.*

**540. STUDIES IN MUSIC HISTORY.** Content will vary. *Prerequisite: completion of Music 315 or consent of instructor.*

## WORLD MUSIC

The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

**350. MUSIC OF OTHER CULTURES.** Offered either as a survey of world music or as an intensive study into the music of a particular country or region. May be repeated for credit.

**351. MEXICAN AND CHICANO MUSIC.** The musical cultural heritage of Mexico and its relation to the Mexican-American community.

**360. MUSIC IN THE UNITED STATES.** Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition.

## COMPOSITION

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences. Composition courses may be repeated for credit with consent of instructor.

**416. SEMINAR IN ELECTRONIC COMPOSITION.** Techniques of electronic composition. Experimentation based on individual abilities and preferences. Non-majors encouraged to enroll.

**417. SEMINAR IN COMPOSITION.** May be repeated for credit. *Prerequisite: consent of instructor.*

## PERFORMANCE PRACTICE

Role of the performer in various periods; study of stylistic procedures, score interpretation, editing for performance; studies in ornamentation and improvisation. *Prerequisite: consent of instructor.*

**450. PERFORMANCE PRACTICE.**

## INDEPENDENT STUDY

**528. SPECIAL PROJECTS.** Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. *Prerequisite: consent of instructor.* (1 to 5 units)

## MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

**200. CLASS VOICE.** Study in the fundamentals of singing, voice production and diction. (2 units)

**201. CLASS STRINGS.** Beginning study on violin, viola, cello and bass. May be repeated for credit. (1 unit)



## Music

- 202. CLASS WOODWINDS.** Beginning study on selected woodwinds. May be repeated for credit. (1 unit)
- 203. CLASS BRASS.** Beginning study on selected brass instruments. May be repeated for credit. (1 unit)
- 204. CLASS PERCUSSION.** Beginning study of percussion instruments. May be repeated for credit. (1 unit)
- 205. CLASS GUITAR AND FOLK MUSIC.** Beginning guitar instruction designed for the prospective elementary school teacher. May be repeated for credit. (1 unit)
- 210. CONDUCTING.** Introduction to basic conducting techniques. (2 units)
- 220. CLASS PIANO I.** A study of basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student without keyboard experience. Placement examinations are given at the beginning of each quarter. *Prerequisites: approval of department chairman and consent of instructor.* (1 unit)
- 221. CLASS PIANO II.** A study of basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. *Prerequisites: approval of department chairman and consent of instructor.* (1 unit)
- 222. CLASS PIANO III.** A study of basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. *Prerequisites: approval of department chairman and consent of instructor.* (1 unit)
- 301. MUSIC LITERATURE FOR CHILDREN.** (2 units)
- 302. MUSIC THEATRE PRODUCTION.** (2 units)
- 499. METHODS AND MATERIALS IN THE TEACHING OF MUSIC.** May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*
- 531. MUSIC IN THE CLASSROOM.** A correlated study of basic music theory, piano and vocal technique and classroom skills. Designed for the elementary teacher. Not open to majors in music.

## APPLIED MUSIC

Music majors are required to take a minimum of three units of applied music at the upper-division level. Applied music units on the same instrument may not be taken concurrently. A maximum of fifteen units may be applied to the total requirement. Permission to register in upper-division music courses can be granted only after a placement audition or by faculty recommendation. Applied music courses are available to undergraduate music majors only.

For students planning a career in music education, it is strongly recommended that, in addition to the three-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

Students planning a career in performance are expected to study on their major instrument each quarter they are in residence. Students working in other areas may develop applied music programs consistent with their interest and goals.

*The following music courses are available to undergraduate music majors only.*

- 240. BEGINNING AND INTERMEDIATE VOICE.** (1 unit)
- 241. BEGINNING AND INTERMEDIATE KEYBOARD INSTRUMENT.** (1 unit)
- 242. BEGINNING AND INTERMEDIATE STRING INSTRUMENT.** (1 unit)
- 243. BEGINNING AND INTERMEDIATE WIND INSTRUMENT.** (1 unit)
- 244. BEGINNING AND INTERMEDIATE BRASS INSTRUMENT.** (1 unit)
- 245. BEGINNING AND INTERMEDIATE PERCUSSION INSTRUMENT.** (1 unit)
- 440. ADVANCED VOICE.** *Prerequisite: placement audition or consent of instructor.* (1 unit)
- 441. ADVANCED KEYBOARD INSTRUMENT.** *Prerequisite: placement audition or consent of instructor.* (1 unit)
- 442. ADVANCED STRING INSTRUMENT.** *Prerequisite: placement audition or consent of instructor.* (1 unit)
- 443. ADVANCED WIND INSTRUMENT.** *Prerequisite: placement audition or consent of instructor.* (1 unit)
- 444. ADVANCED BRASS INSTRUMENT.** *Prerequisite: placement audition or consent of instructor.* (1 unit)
- 445. ADVANCED PERCUSSION INSTRUMENT.** *Prerequisite: placement audition or consent of instructor.* (1 unit)

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#### PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit, up to a total of 10 units to satisfy graduation requirements. Credits may not be counted toward fulfilling course requirements in the major.

- 380. CHAMBER ORCHESTRA.** *Prerequisite: consent of instructor.* (1 unit)
- 381. BAND.** *Prerequisite: consent of instructor.* (1 unit)
- 382. CHAMBER MUSIC.** *Prerequisite: consent of instructor.* (1 unit)
- 385. CONCERT CHOIR.** *Prerequisite: consent of instructor.* (1 unit)
- 386. CHAMBER SINGERS.** *Prerequisite: consent of instructor.* (1 unit)
- 387. OPERA WORKSHOP.** *Prerequisite: consent of instructor.* (1 unit)
- 398. PERFORMANCE.** Special performance groups such as South Indian singing, Collegium Musicum and piano ensemble. *Prerequisite: consent of instructor.* (1 unit)

## NATURAL SCIENCES

Students interested in the natural sciences normally major in biology, chemistry, mathematics and physics. The College does not offer a degree program in natural science. However, courses of a more general or interdisciplinary nature in the sciences are available under the Natural Sciences designation.

**100. DESCRIPTIVE ASTRONOMY.** A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies and models of the universe. Discussions of space exploration and other methods of extending knowledge of the universe. No previous background in natural sciences is required. Lecture and two hours of laboratory.

**135. INTRODUCTION TO COMPUTERS AND BASIC.** Introduces concepts of general interest to all programming languages with the use of the conversational-type language BASIC. No previous background is required. Appreciation and experience in the use of the time-sharing mode of a computer is gained by exercises from a wide variety of applications, many of them non-mathematical. (2½ units)

**140. INTRODUCTION TO DIGITAL PROGRAMMING.** An introduction to computer languages with emphasis on Fortran. Consideration will be given to basic operations and elements of a digital computer, mathematical notations, Boolean algebra, number representations, flow charts, logic and understanding of problems amenable to computer solutions. *Prerequisite: Mathematics 101 or consent of instructor.*

**145. INTRODUCTION TO DATA PROCESSING.** An introduction to data processing for students with no previous background in the area. This course stresses the fundamental principles and provides the necessary guides for successful application. Topics include computer programming (emphasizing COBOL), punched card processing, input/output and storage of data, and real and batch processing. Illustrative examples will be taken from the fields of administration, business, economics and other areas.

**300. SCIENCE AND TECHNOLOGY.** An examination of the relationship between science and technology—past, present and future—with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues.

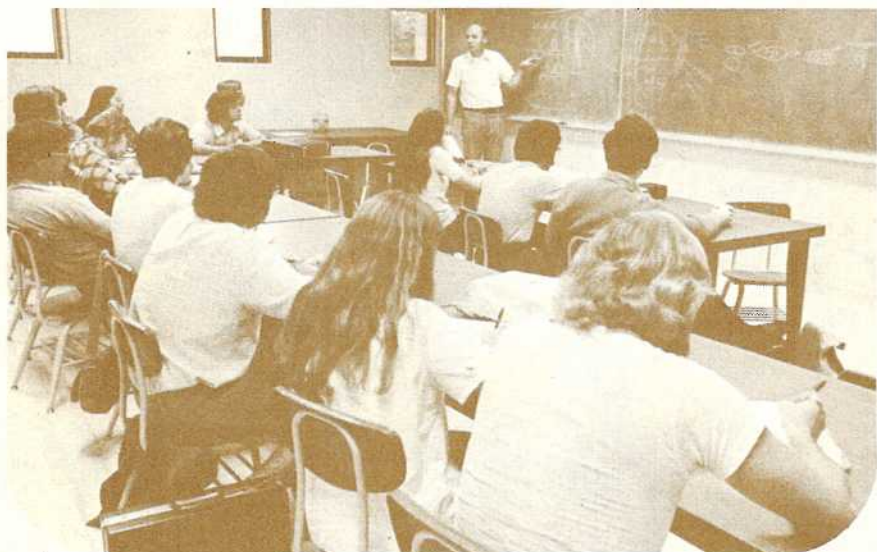
**310. MAN AND HIS ENVIRONMENT.** Effects of science and technology on the environment. Special attention will be given to pollution sources, effects and possible solutions.

**340. ADVANCED DIGITAL COMPUTING.** Topics selected from the following: digital computing systems, assembler programming, job control language and applied programming. *Prerequisite: Natural Sciences 140 or equivalent or consent of instructor.*

**350. NATURAL PHENOMENA.** Physical principles underlying natural phenomena and illusions, such as earthquakes, continental drift, geomagnetism, tides, weather, rainbows, cosmic rays, auroras and mirages.

- 406. THE LIMITATIONS OF SCIENCE.** Scope and limitations of science, including discussions of the present attitudes of society toward science, the limitations inherent in the scientific method, the economic limitations of science and the limitations of science due to the nature of man. A seminar course open to students in all majors.
- 407. BIOLOGICAL BASIS OF SOCIAL BEHAVIOR.** An inquiry into the kinds of animal groups and their significant characteristics. A wide variety of social traits and processes shared by animals and man will be examined. A seminar course open to students in all majors.
- 408. HUMAN VALUES IN A SCIENTIFIC AGE.** Effect of science on human values; consideration of problems caused by the machine age and rapid scientific growth and possible solutions. A seminar course open to students in all majors.
- 410. HISTORY AND DEVELOPMENT OF SCIENTIFIC THOUGHT.** History of major scientific developments in the natural sciences which have changed man's concept of himself and the universe. A seminar course open to students in all majors.
- 418. FRONTIERS IN SCIENCE.** Ideas, concepts and discoveries of science currently unfolding. Major advances in several disciplines of science and their border areas, such as the molecular basis of heredity, evolution of the elements and the universe, and new chemical materials. A seminar course open to students in all majors.
- 421. DYNAMICS OF POPULATIONS.** An inquiry into the components which characterize populations, stressing the importance of biological, chemical and sociological control of population growth; evaluation of the relationship of growth curves to natural resources. A seminar course open to students in all majors.
- 430. THE SCIENCE OF HEREDITY AND HUMAN AFFAIRS.** Readings and discussions in topics such as the role of genetics in selection and improvement of plants and animals including man; insecticides and radioactivity and possible mutagenic effects; the role of genetics in forensic medicine; genetic engineering and man's future. A seminar course open to students in all majors.
- 431. THE BIOLOGICAL SCIENCES AND PUBLIC POLICY.** Complex social problems involving the biological sciences, such as environmental pollution, genetic control and possible responses, both public and private, to such problems. A seminar course open to students in all majors.
- 432. ENERGY AND ITS UTILIZATION BY MAN.** Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Emphasis is placed on scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. A seminar course open to students in all majors.
- 498. STUDIES IN NATURAL SCIENCES.** Selected topics in the natural sciences. May be repeated for credit as the topics change. (2 units)





## NURSING

The College is planning to add the degree program, B.S. in Nursing; to its curriculum in 1974-75. Latest information on these plans can be obtained from the Department of Nursing. The courses listed below are being offered currently and are expected to become a part of the proposed degree program.

As a prerequisite to the clinical nursing courses (330, 331, 360, 361, 370 or 371), students are required to obtain professional liability insurance.

**310. SCIENCE AND HUMAN PHENOMENA.** Dynamic aspects of biology, chemistry and physics as they relate to the human body. Lecture and three hours of laboratory.

**330. COMMUNITY HEALTH NURSING I.** Theories related to the optimum health of people in all age groups, emphasizing nursing intervention in promoting optimum health for families. Laboratory experiences in community agencies such as industry, schools, clinics, doctors' offices and student health centers. Lecture and six hours of laboratory. (6 units)

**331. COMMUNITY HEALTH NURSING II.** A continuation of Nursing 330. Emphasis on the nurse's role as the patient's advocate and in motivating man to seek a higher level of well-being. Lecture and six hours of laboratory. *Prerequisite: Nursing 330.* (6 units)

**340. ANALYSIS OF NURSING THOUGHT.** Theories of group process, leadership, health continuum and the nursing process. Lecture only.

**350. INDEPENDENT PRACTICE AND CHANGE AGENT.** Legal, political and economic forces and structures affecting the practice of nursing and the delivery of health care; the political arena, the expanding role of the nurse practitioner in the health care delivery system and the dynamics of planned change. Lecture only.

**360. EPISODIC NURSING I.** Techniques and methods of assessing human responses; securing and recording health and developmental histories; translating research findings into nursing diagnoses and health care regimens. Emphasis on restorative aspects of nursing care of patients with acute or long-term health problems. Laboratory experience will include assessment of patients in different stages of illness, health problems and age groups. Lecture and six hours of laboratory. *Prerequisite: Nursing 331.* (6 units)

**361. DISTRIBUTIVE NURSING I.** Techniques and methods of assessing the health status and environment of individuals and families; community resources; case finding; and medical and social agency referrals. Emphasis on evaluating human responses, eliciting and recording health histories, making nursing diagnoses and prescribing modifications in health maintenance and environment in order to prevent disease. Laboratory experience will include assessments of individual and family problems, referrals and counseling of patients in private homes, ghetto areas, free or store-front clinics, community care centers and migrant farms. Lecture and six hours of laboratory. *Prerequisite: Nursing 331.* (6 units)

## Nursing

- 370. EPISODIC NURSING II.** Techniques and methods of designing immediate and long-term nursing care plans. Emphasis on the professional nurse's role in delegating nursing care to other nursing personnel. Laboratory experience will include evaluation of existing nursing care plans, formulation of new plans, determination of those best qualified for implementation and preparation of staff. Lecture and six hours of laboratory. *Prerequisite: Nursing 360.* (6 units)
- 371. DISTRIBUTIVE NURSING II.** Techniques and methods in health surveillance and health supervision of pregnant and post-partum women, well babies and children, and drug-dependent individuals. Emphasis on counseling, teaching and family planning. Laboratory experiences will include teaching the care of the newborn, family planning and counseling the drug-dependent individual. Experiences will be provided in health agencies, homes, schools and encounter groups. Lecture and six hours of laboratory. *Prerequisite: Nursing 361.* (6 units)
- 380. ANALYSIS OF CURRENT PROFESSIONAL PROBLEMS.** Contemporary problems in nursing, such as continuing education, allied health profession and health legislation. Lecture only.
- 595. INDEPENDENT STUDY.** A special project involving the literature, field research and/or experimental effort. A total of six units in Nursing 595 may be applied toward graduation. *Prerequisites: senior standing and consent of department and instructor.* (Credit to be arranged: 1 to 6 units)

## PHILOSOPHY

The Department of Philosophy offers a major designed to serve many different needs. It helps pre-law students meet several standards preferred by the Association of American Law Schools; it provides a foundation for entering various public or governmental careers with agencies like the United States Foreign Service; it develops certain mental capacities that are attractive for executive management trainee programs in commerce and industry.

The major achieves these goals by strengthening each student's powers of reflection, of constructive thinking about fundamental human problems, and of personal independence, through regular exposure to disciplined reading, Socratic group discussion and careful writing. By combining intellectual excitement with rigor, the major appeals to those who enjoy philosophical exploration for its own sake as well as to those who plan to acquire A.M. or Ph.D. degrees to enter college or university teaching and research in philosophy.

Requirements for the major: twelve courses, no more than three of which may be lower-division, e.g. Philosophy 105, 190 or 200. The twelve must include a three-term sequence of readings in the history of philosophy: Philosophy 300, 302, 304; four systematic fields: Philosophy 312, 350, 360, 370; studies in one great philosopher: Philosophy 400; and any one other upper-division Philosophy course.

A comprehensive examination, testing skills by applying them to a small set of philosophical works announced at the close of junior year, will be required in the next-to-last term of the senior year.

In order to meet entrance standards for most graduate departments of philosophy and to qualify for strong recommendations from this department, students planning to apply for graduate programs should also complete two additional upper-division elective Philosophy courses, plus a minimum of four full-term courses, or equivalent proficiency, in one foreign language (preferably French, German, Latin or Greek), with attainment of demonstrable reading skill.

Requirements for the minor: six Philosophy courses, no more than two of which may be lower-division; the six must include at least one from the sequence of readings in the history of philosophy: 300, 302, 304; and one systematic field chosen from 312, 350, 360, 370.

**105. ARGUMENT AND EVIDENCE.** Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues.

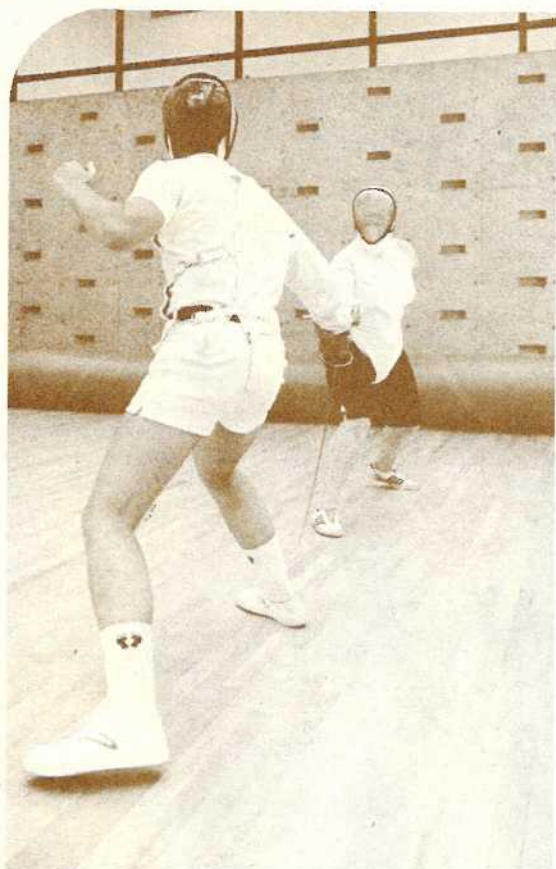


## Philosophy

- 190. STUDIES IN PHILOSOPHY.** Introduction to the analysis of philosophic problems centered on things done, things known and things made. Intensive group discussion is based on writings from Greek, medieval, early modern and contemporary philosophers.
- 200. STUDIES IN ONE GREAT PROBLEM.** Concentration on a single important philosophic problem, e.g., what is justice?, what is beauty?, how are power and wisdom connected?, is there a God? Radically different works will serve to foster discovery of the multi-faceted structure of the problem and some solutions offered for it. May be taken for credit more than once, if the problem selected is different each time.
- 300. READINGS IN THE HISTORY OF PHILOSOPHY I.** Greek and Roman philosophy, Pre-Socratics to Marcus Aurelius and Plotinus.
- 302. READINGS IN THE HISTORY OF PHILOSOPHY II.** Medieval philosophy, St. Augustine to Ockham.
- 304. READINGS IN THE HISTORY OF PHILOSOPHY III.** Early modern philosophy, Descartes to 1900.
- 312. LOGIC.** The structure, operations and theory of logic in Aristotle's *Organon* and contemporary mathematical logic.
- 315. PHILOSOPHY OF SCIENCE.** A comparative study of diverse conceptions of the nature of science, its methods, assumptions and problems, and the inter-relations of sciences.
- 350. ETHICS.** Analysis of problems intrinsic to human action, through the study of alternative formulations offered by some great philosophers, present and past.
- 360. POLITICAL PHILOSOPHY.** Some important ancient, medieval and modern works are examined systematically to illuminate issues concerning community action.
- 370. PHILOSOPHY OF ART AND CRITICISM: AESTHETICS.** Principles and problems of art are analyzed with the help of important writings that raise questions of general theory and critical practice.
- 390. METAPHYSICS.** Inquiry into questions of first principles, including the problem of organizing arts, sciences and disciplines into one systematic whole. Relevant philosophic masterpieces help to pinpoint the issues.
- 400. STUDIES IN ONE GREAT PHILOSOPHER.** Interrelates one philosopher's diverse works, to reveal the overall structure of his distinctive position. *May be taken for credit more than once, if the philosopher selected is different each time.*
- 402. AMERICAN PHILOSOPHY.** A study of several of the main contributions to philosophy produced in America, including the pragmatists Peirce, James, Dewey, and Mead.
- 406. EXISTENTIALISM.** Attention is primarily focused on Heidegger, Jaspers, Sartre and Marcel, though Kierkegaard, Nietzsche, Buber, Camus and Merleau-Ponty are included.
- 408. MARX AND MARXIST PHILOSOPHERS.** An investigation of Karl Marx's philosophy, with systematic attention to the variations on it contributed by Engels, Lenin, Stalin, Trotsky and Mao Tse-Tung.

## Philosophy

- 450. MAN'S SEARCH FOR GOD OR GODS.** A probing of some significant ideas about God and the philosophy of religion.
- 465. PHILOSOPHY OF LAW.** Intensive study of the concept of law and its relation to power, command, reason, nature, justice, prediction.
- 498. SEMINAR: PHILOSOPHIZING IN THE 20TH CENTURY.** Participants will present short papers and defend them during cross-questioning by those present. Articles from professional journals of philosophy, as well as longer works, will serve to exhibit recent inquiry, debate, and scholarship.
- 520. PHILOSOPHY OF EDUCATION.** An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey.
- 580. PHILOSOPHICAL CONFRONTATIONS.** An exploration of the systematic alternatives presented by two important philosophers, e.g., Plato and Aristotle, St. Augustine and St. Thomas Aquinas, Locke and Leibniz, Hume and Kant, Hegel and Marx. *May be taken for credit more than once, if the pair selected is different each time.*



## PHYSICAL EDUCATION AND RECREATION

The primary objectives of the Physical Education and Recreation Department are to emphasize the benefits of active recreation for all adults and to offer minors in the fields of physical education and recreation.

The department seeks to achieve total student involvement in some phase of its program—classes, intramurals or recreation. With the variety of activities available, students can develop, improve and maintain optimum physical fitness; develop and practice useful sport skills; enjoy wholesome physical recreation or vigorous intramural competition; and acquire desirable life-long attitudes for healthful adult living.

Requirement for graduation: each student is required to complete three activity courses (6 quarter units of credit) in Physical Education. It is recommended that these courses be taken during the first year on campus. Activities such as badminton, basketball, handball, squash, tennis and volleyball are offered on the courts, and the playing fields provide for archery, golf, soccer, softball and other field sports. Other activities include: aquatics, combatives, dance, gymnastics and weight training.

Students who are over 25 years of age are not required to take Physical Education classes but may substitute six credit hours of their choice. Students who need to meet a requirement in health in preparation for a teaching credential should consult the School of Education.

Classes are coeducational except where the nature of the activity deems it inappropriate.

Requirements for a minor in physical education: Physical Education 180, 200, 300, 340, 350 and a course in school health; two of the following: Physical Education 140, 150, 165, 250 and 332; and three additional two-unit courses offered by the department.

Requirements for a minor in recreation: Physical Education 171, 180, 200, 271, 361 and 410; two of the following: Physical Education 140, 150, 165, 332; and three additional two-unit courses offered by the department.

For information on intramurals or recreational use of the physical education facilities by students, contact the Physical Education and Recreation Department office.

All two-unit Physical Education courses are graded credit/no credit.

**100. INTRODUCTION TO PHYSICAL EDUCATION.** Instruction in a variety of sports activities. (2 units)



## Physical Education and Recreation

### 110. INDIVIDUAL SPORTS. (2 units)

- |                         |                          |
|-------------------------|--------------------------|
| A. Archery              | H. Horseshoes            |
| B. Badminton            | I. Lawn bowling          |
| C. Bicycling            | J. Racquet (paddle) ball |
| D. Bowling              | K. Skiing                |
| E. Boating and Canoeing | L. Squash racquets       |
| F. Golf                 | M. Tennis                |
| G. Handball             |                          |

### 111. BODY CONDITIONING. (2 units)

- |                     |                    |
|---------------------|--------------------|
| A. Circuit training | C. Weight training |
| B. Jogging          | D. Yoga            |

### 112. TRAMPOLINE AND STUNTS. Basic instruction in trampoline tumbling and gymnastics. (2 units)

### 113. COMBATIVES. (2 units)

- |            |              |
|------------|--------------|
| A. Boxing  | C. Karate    |
| B. Fencing | D. Wrestling |

### 120. TEAM SPORTS. (2 units)

- |                 |                          |
|-----------------|--------------------------|
| A. Basketball   | E. Speedball             |
| B. Field hockey | F. Touch (flag) football |
| C. Soccer       | G. Volleyball            |
| D. Softball     | H. Water Polo            |

### 130. SWIMMING AND DIVING. (Beginning, intermediate, advanced.) Instruction at all levels, includes springboard diving. (2 units)

### 131. LIFE SAVING. To meet the standards for Red Cross certification. (2 units)

### 134. AQUATIC GAMES AND ACTIVITIES. Includes experiences in organizing and playing games such as water basketball, water polo, water volleyball and water ballet. (2 units)

### 135. SKIN DIVING. Instruction in the principles of underwater swimming with mask, snorkel and fins. Basic physiology of diving. Instruction in selection, use and care of equipment. (2 units)

### 136. SCUBA DIVING. Instruction in the physiology, physics and principles of underwater swimming with and without underwater breathing apparatus. Instruction in selection, use and care of equipment. To meet requirements for NAUI certification, field trip is required as part of the class. *Prerequisites: doctor's physical examination and either passing P.E. 135 or consent of instructor.* (2 units)

- |                 |             |
|-----------------|-------------|
| A. Beginning    | C. Advanced |
| B. Intermediate |             |

### 140. DANCE. (2 units)

- |           |           |
|-----------|-----------|
| A. Ballet | D. Round  |
| B. Folk   | E. Square |
| C. Modern | F. Jazz   |

### 150. SPORTS OFFICIATING. Instruction in techniques for sports officials and referees and experience working in intramural sports program. (2 units)

### 160. OUTING SKILLS. Instruction in basic outing skills including selection and care of a campsite, planning and preparation of meals and erecting of an adequate shelter. (2 units)

- |                   |                 |
|-------------------|-----------------|
| A. Backpacking    | C. Camp cooking |
| B. Mountaineering |                 |

## Physical Education and Recreation

- 165. OUTDOOR EDUCATION AND CAMP LEADERSHIP.** Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Opportunities for supervised leadership and field trips to observe camp facilities, programs and sources. (2 units)
- 171. INTRODUCTION TO RECREATION.** Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation.
- 180. SPORTS SUPERVISION.** Organization and supervision of recreational sports for school or community participation. (2 units)
- 200. FIRST AID.** Instruction in the prevention of injuries and the emergency care and treatment of illnesses or injuries. To meet the requirements for standard and advanced Red Cross certification. (2 units)
- 250. ADAPTIVE PHYSICAL EDUCATION.** Instruction in organizing and supervising programs for the handicapped. (2 units)
- 271. RECREATION LEADERSHIP.** Organization, supervision and administration of recreation programs and practical experience in recreational activity situations in which leadership skills can be developed. *Prerequisite: P.E. 171 or consent of instructor.*
- 300. SCHOOL GAMES AND RHYTHMS.** Experiences in developing a physical education program for elementary school children. (2 units)
- 332. WATER SAFETY INSTRUCTION.** Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. To meet standards for Red Cross certification for teaching all levels of swimming, life saving and small craft safety. *Prerequisite: current senior life-saving certificate.* (2 units)
- 340. ORGANIZATION AND CONDUCT OF PHYSICAL EDUCATION.** Instruction in history, philosophy, organization, administration and methods of teaching physical education.
- 350. FIELD WORK IN PHYSICAL EDUCATION.** Supervised leadership experience in school physical education class or intramural program. *Prerequisite: Physical Education 340.*
- 361. RECREATION PROGRAMMING.** Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art, sports. *Prerequisite: Physical Education 171.*
- 410. FIELD WORK IN RECREATION.** Supervised leadership experience in a recreation agency. *Prerequisites: Physical Education 271 and 361.*

## PHYSICS

Traditionally physics graduates either have gone on to graduate work in physics or have found employment in industrial or governmental laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work. A candidate for the B.S. degree may also take several courses selected from any of the offerings of the college.

Requirements for the bachelor of arts degree: Physics 211, 212, 213, and twenty-five additional upper-division units in Physics; Chemistry 215 or equivalent; and completion of a lower-division calculus sequence (Mathematics 200–203 or equivalent).

Requirements for the bachelor of science degree: Physics 211, 212, 213, and forty units selected from the following: 311, 312, 313, 405, 411, 413, 430 and 440; Chemistry 215 or equivalent; completion of a lower-division calculus sequence (Mathematics 200–203 or equivalent); and four additional courses from the offerings of the School of Natural Sciences, to be selected with the approval of the Physics Department.

Completion of the calculus sequence is prerequisite for all upper-division courses leading to a major in Physics. A comprehensive examination covering the major field of study is required in the senior year.

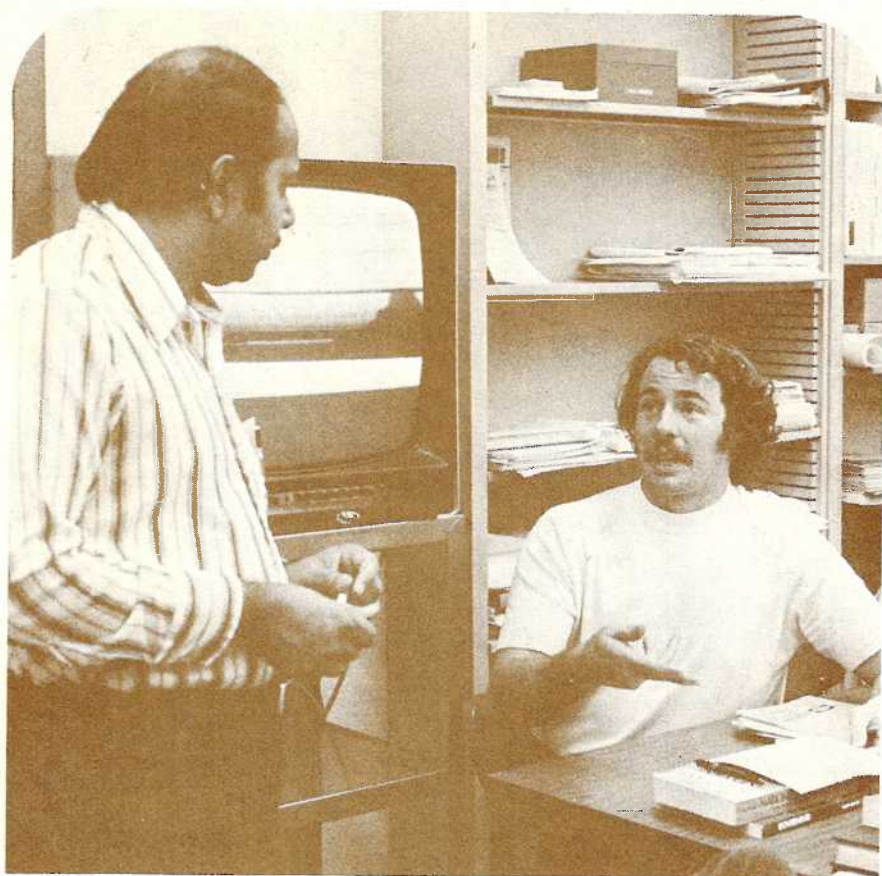
Requirements for a minor in Physics: Physics 211, 212 and 213; four electives (selected from among Physics 300, 311, 312, 313, 405, 411, 413, 420 and 430); and Mathematics 200, 201, 202 and 203.

**100. A SURVEY OF PHYSICS.** Advances in physics which have influenced man's visualization of the universe. This course is intended for students with little background in science and mathematics. Lecture and two hours of laboratory.

**111. BASIC CONCEPTS OF PHYSICS I.** The first course of a two-course sequence surveying the basic concepts of physics including waves, optics, mechanics, electricity, magnetism and modern physics. This course is primarily for students entering fields relating to the biological sciences. Lecture and six hours of laboratory. *Prerequisite: two years of high school algebra or equivalent.* (6 units)

- 112. BASIC CONCEPTS OF PHYSICS II.** A continuation of Physics 111. Lecture and six hours of laboratory. *Prerequisite: Physics 111 with a grade of C or better.* (6 units)
- 211. CLASSICAL MECHANICS.** The first course of a three-course sequence surveying physics. For students with a strong background in mathematics and the other sciences. Lecture and six hours of laboratory. *Pre- or corequisite: Mathematics 201.* (6 units)
- 212. STATIC AND DYNAMIC ELECTRICITY.** Lecture and six hours of laboratory. *Prerequisites: Physics 211 and Mathematics 201 with a grade of C or better. Pre- or corequisite: Mathematics 202.* (6 units)
- 213. WAVES AND MODERN PHYSICS.** Lecture and three hours of laboratory. *Prerequisite: Physics 212 with a grade of C or better.*
- 300. ELECTRONICS FOR SCIENTISTS.** Electrical measurement techniques and basic electronics. Lecture and six hours of laboratory. *Prerequisite: consent of instructor.*
- 311. CIRCUIT THEORY AND VECTOR ANALYSIS.** Vector analysis and electrical circuit theory are presented and applied to a wide range of problems in physics. Lecture and three hours of laboratory. *Prerequisites: Physics 212 with a grade of C or better and Mathematics 203.*
- 312. RELATIVITY AND ELECTROSTATICS.** Lecture only. *Prerequisites: Physics 213 and 311.*
- 313. ELECTRODYNAMICS.** Derivation and applications of Maxwell's equations starting from a relativistic viewpoint. Lecture only. *Prerequisite: Physics 312.*
- 405. INTERMEDIATE CLASSICAL MECHANICS.** A continuing and more thorough study of the material introduced in Physics 211; statics and dynamics including rotational motion of rigid bodies and an introduction to advanced formulations of mechanics. Lecture only. *Prerequisites: Physics 212 and Mathematics 203.*
- 411. MODERN PHYSICS.** Topics of modern physics with an introduction to the concepts of quantum mechanics. Lecture only. *Prerequisites: Physics 213 and Mathematics 203, each with a grade of C or better.*
- 413. THERMAL AND STATISTICAL PHYSICS.** Statistical behavior of systems of large numbers of particles with applications to physical systems and concepts including classical thermodynamics. Lecture only. *Prerequisite: Physics 411.*
- 430. ADVANCED PHYSICS LABORATORY.** Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. *Prerequisite: Physics 213.* (2½ units)
- 440. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS.** Papers on various topics are prepared by the students and presented during class sessions. May be repeated once for credit. *Prerequisite: consent of instructor.* (2½ units)
- 499. METHODS AND MATERIALS IN THE TEACHING OF PHYSICS.** May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*
- 595. INDEPENDENT STUDY.** Research in Physics conducted under the direction of a faculty member. A total of six units in Physics 595 may be applied toward graduation. *Prerequisites: consent of department and instructor.* (Credit to be arranged: 1 to 6 units)





## POLITICAL SCIENCE

The major in Political Science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields: American government and politics, comparative politics, political behavior, international relations, political theory, and public policy and administration. Using combinations of these fields, students can tailor-make their study programs by creating tracks such as public policy, legal training or international relations.

In many political science courses students are afforded the opportunity to assume the roles of politicians, bureaucrats and judges in computer-simulated international conflict, in legislative and administrative hearings and in moot court proceedings. Also, they may work as interns in city and county government or in the offices of lawyers and judges, or they may complete independent study projects approved by the department.

Requirements for the major: a minimum of ten courses in Political Science including Political Science 200, 202, and eight upper-division courses. With the approval of the department chairman, up to two courses in related fields may be counted toward the upper-division course requirement in Political Science.

The major also requires at least one course from each of the following fields: American government and politics (320, 326, 328, 330, 380, 410, 411, 426, 428, 430, 550 and 570); comparative politics (300, 304, and 306); international relations (325, 400, 500, 510 and 590); political behavior (440, 446, 450 and 540); and political theory (310, 312 and 314). In addition, majors are strongly urged to take Social Sciences 210 or Mathematics 150.

Requirements for a minor in Political Science: six courses including Political Science 200 and 202, and at least four upper-division Political Science courses chosen in consultation with an advisor.

Departmental Honors: Students majoring in Political Science are eligible to receive honors in Political Science at graduation when they meet the following requirements: 3.5 grade-point average in all political science courses attempted, at least half of all work in political science

## Political Science

completed at this college, and recommendation for departmental honors by political science faculty.

**200. INTRODUCTION TO POLITICAL SCIENCE.** Introduction to the scope of the discipline, to its basic philosophical concepts, methods, and to political action in various cultural contexts.

**202. AMERICAN GOVERNMENT.** Political structure and processes of the American governmental system. This course will satisfy the State Code requirement in United States History, Constitution and American ideals and in California state and local government.

**300. WESTERN POLITICAL SYSTEMS.** A study of major Western political systems.

**304. COMMUNIST POLITICAL SYSTEMS.** A study of Communist political systems and an examination of the relationships among such systems.

**306. DEVELOPING POLITICAL SYSTEMS.** Study of developing systems with an emphasis on newly independent nations.

**310. GREEK, ROMAN AND MEDIEVAL POLITICAL THOUGHT.** A study of the political ideas from the time of the Greeks to the rise of the sovereign state in the 16th century and the ideas of Thomas Hobbes.

**312. ANALYSIS OF WESTERN POLITICAL THOUGHT.** A study of the major political ideas from Hobbes to Marx, emphasizing the European theorists.

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**314. AMERICAN POLITICAL THOUGHT.** A study of the development of political ideas from the colonial period to the present.

**320. THE LEGISLATIVE PROCESS.** An analysis of the law-making processes in the United States and/or other selected political systems.

**325. AMERICAN FOREIGN POLICY.** An introduction to political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age.

**326. POLITICAL PARTIES AND INTEREST GROUPS.** Organization, objectives, and activities of political parties and political interest groups and their functions in modern political systems.

**328. JUDICIAL PROCESS.** Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles.

**330. STATE AND LOCAL POLITICS.** Comparison of state and local political systems within the American Federal System. This course meets the State Code requirement in California state and local government.

**340. SEX AND POLITICS.** Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world.

**342. THE POLITICS OF ENVIRONMENT.** A consideration of environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource management, and the political costs and benefits of environmental protection.

**350. POLITICS OF BLACK AMERICA.** Black liberation ideologies and attempts at their implementation within the American political system.

- 351. THE CHICANO AND POLITICS.** Analysis of the political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process.
- 380. SURVEY OF PUBLIC ADMINISTRATION.** An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems.
- 400. INTERNATIONAL POLITICS.** A study of selected theories and evolving patterns of international politics as developed within the nation-state system.
- 410. AMERICAN CONSTITUTIONAL LAW.** A study of the principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism, and commerce are included.
- 411. THE BILL OF RIGHTS.** A study of the limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed.
- 426. POLITICS OF PUBLIC ADMINISTRATION.** Political aspects of public administration including the interaction of bureaucracies and administrators in a political environment and the policy-making functions of administrators.
- 428. FORMULATION OF PUBLIC POLICY.** Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development.
- 430. THE MODERN POLITICAL EXECUTIVE.** The office and institution of the modern political executive in the United States and/or other countries.
- 440. VOTING BEHAVIOR.** Analysis of factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions.
- 446. POLITICAL BEHAVIOR.** Research methods and approaches to research problems used in the analysis of political behavior. Includes: logic of inquiry, collection of data, analysis of data, and the interaction between theory and method.
- 450. POLITICAL ATTITUDES AND ORIENTATIONS OF CHILDREN.** Application of political theory and research to the political education and socialization of children. Major attention devoted to the problems of children's political orientations, their sources and formation.
- 500. INTERNATIONAL LAW.** A study of the historical basis and present trends in the development of international law.
- 510. INTERNATIONAL ORGANIZATION.** A study of the history, structure, and dynamics of the United Nations and other multi-national organizations.
- 540. POLITICAL COMMUNICATION.** An examination of the channels of influence and political opinion formation within contemporary political systems.
- 550. COMMUNITY POLITICS.** Comparative analysis of local politics with emphasis on community structures, processes, and policies.
- 560. INTERGOVERNMENTAL RELATIONS.** Administrative and political dynamics of relationships among national, state and local units of government. *Prerequisite: senior standing.*



## Political Science

- 570. THE NATIONAL GOVERNMENT AND THE NATIONAL ECONOMY.** A study of the interaction of political and economic power illustrated through a review of major contemporary issues and activities in national affairs.
- 575. INTERNSHIP IN POLITICAL SCIENCE.** Supervised work and study in public and private organizations. May be repeated once for credit. *Prerequisite: consent of instructor and department.*
- 580. SEMINAR IN PUBLIC POLICY.** An analysis of the political aspects of administrative systems with emphasis on public policy process in advanced and less developed countries.
- 590. SEMINAR IN INTERNATIONAL RELATIONS.** Intensive study of some phase of foreign policy-making or international relations to be developed by the instructor with his class. May be repeated for credit, with the consent of the instructor.
- 592. SEMINAR IN GOVERNMENT.** An intensive study of some phase of government to be developed by the instructor with his class. May be repeated for credit, with the consent of the instructor.
- 595. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units)

## PSYCHOLOGY

The general objectives of the Psychology program are to present the scientific and professional aspects of Psychology to the undergraduate majoring in this field and to provide service courses as electives to the entire student population. The department also offers course work leading to the Master of Arts degree in Psychology. Students intending to enroll in this program or another graduate school will find that the undergraduate program provides an excellent base for entry into graduate training. Other majors may plan a paraprofessional career in counseling or related fields where graduate training may not be necessary.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning, perception and motivation to such applied courses as counseling, industrial and behavioral technology. Laboratory and training facilities complement a wide variety of courses.

Requirements for the major: Psychology 100, 200; a minimum of eight upper-division courses in Psychology, including 300, 310, 498; and one of the following: Psychology 450, 460, 465, 470, 475, 485. Also required is either Mathematics 150 or Social Sciences 210. The department offers alternatives for fulfilling some requirements with non-classroom study; see the departmental secretary for details.

*Departmental Honors.* Departmental honors will be awarded upon graduation to students majoring in Psychology who have earned a 3.8 or higher grade-point average in all Psychology course work. Psychology majors who earn at least a 3.5 grade-point average in upper-division Psychology course work may earn consideration for departmental graduation honors by fulfilling one of the following requirements: (1) author, or contribute significantly to the authorship of, an article accepted for publication in a major psychological journal, (2) score at or above the 90th percentile on the advanced psychology area test of the Graduate Record Examination, or (3) complete an acceptable undergraduate thesis. Satisfactory completion of requirements for departmental honors must be certified by the department chairman. Students must initiate the application for honors.

*Master of Arts Degree.* Details of this program and application procedures are outlined in the Graduate Bulletin. The program is open to both full-time and part-time students and generally requires the equivalent of one year's full-time work for completion (45 units of graduate study including completion of a master's thesis). Areas of concentration include counseling-clinical, social-community, developmental, perception, physiological-comparative, learning-motivation and industrial-personnel.

## Psychology

- 100. INTRODUCTION TO PSYCHOLOGY.** A survey of the field of modern psychology.
- 200. ADVANCED GENERAL PSYCHOLOGY.** Scientific study of behavior emphasizing the systematic development of principles. *Prerequisite: Psychology 100.*
- 300. METHODS OF PSYCHOLOGICAL INQUIRY.** Introduction to those aspects of philosophy of science and methods of inquiry (introspection, naturalistic observation, case studies, laboratory experiments) as applied to procedures for obtaining and evaluating data in psychology. *Prerequisite: Psychology 200.*
- 310. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY.** Design and execution of psychological research. Lecture and laboratory. *Prerequisites: Psychology 200 and Mathematics 150 or Social Sciences 210.*
- 313. FRONTIERS OF PSYCHOLOGICAL RESEARCH.** Problems and trends in frontier areas of psychological research: cognitive and unconscious determinants, extra-sensory perception, clinical and experimental hypnosis, intrinsic motivation. *Prerequisite: Psychology 200 or consent of instructor.*
- 325. PSYCHOLOGY OF INFANCY.** Analysis of the development of perception, learning, motivation and personality in the first four years of human development. Includes study of psychophysiological, affective and cognitive processes in early childhood. *Prerequisite: Psychology 100 or equivalent.*
- 326. PSYCHOLOGY OF CHILDHOOD.** Analysis of the development of perception, learning, motivation and personality in the child from approximately four to twelve years of age. Includes study of the contributions of heredity, maturation and environment on the learning of simple and complex behavior. *Prerequisite: Psychology 100 or equivalent.*
- 327. PSYCHOLOGY OF ADOLESCENCE AND AGING.** Analysis of the development of perception, learning, motivation and personality from puberty through old age. Includes study of adjustments to puberty, crisis periods in middle life, senescence and dying. *Prerequisite: Psychology 100 or equivalent.*
- 335. WHITE NORMALITY/BLACK DEVIANCE.** Psychological and social-psychological analysis of Black deviance from behavior patterns specified as white normality.
- 336. BLACK RAGE.** Psychological make-up of the Black man in America. Special attention is given psychological effect of repressing anger.
- 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN.** Analysis of the cognitive and affective development of the individual Black American. Includes survey of research which relates the total psychological functioning of the Black person to culturally distinct developmental patterns.
- 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO.** Analysis of the diverse psychological forces that affect the development of the individual Chicano. Includes survey of research which identifies specific aspects of psychological functioning, especially as psychological development relates to cultural differences.
- 350. BEHAVIORAL TECHNOLOGY.** Application of principles and techniques derived from experimental analysis of behavior to problems of behavior management in education, industry and the clinic. *Prerequisite: Psychology 100 or consent of instructor.*
- 355. INDUSTRIAL PSYCHOLOGY.** Survey of the practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. *Prerequisite: Psychology 100 or consent of instructor.*

- 360. COGNITIVE PSYCHOLOGY.** Empirical study of complex human and animal behavior such as memory, problem solving and decision making. *Prerequisite: Psychology 200.*
- 365. COMPARATIVE PSYCHOBIOLOGY.** An introduction to the study of animal behavior from a biological-psychological viewpoint. Particular emphasis will be placed on differentiating physiological, environmental and evolutionary determinants of behavior. *Prerequisite: Psychology 200 or consent of instructor.*
- 377. TESTS AND MEASUREMENTS.** A study of the administration of psychological tests and scales, and the interpretation and use of the data which they yield. *Prerequisites: Psychology 200, and Mathematics 150 or Social Sciences 210.*
- 385. PERSONALITY.** Survey of the major theories of personality. *Prerequisite: Psychology 100 or consent of instructor.*
- 390. ABNORMAL PSYCHOLOGY.** An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. *Prerequisite: Psychology 385 or equivalent.*
- 450. EXPERIMENTAL PSYCHOLOGY: LEARNING.** Selected research areas in the psychology of learning. Includes both literature review and experimental analysis. Lecture and laboratory. *Prerequisite: Psychology 310.*
- 460. EXPERIMENTAL PSYCHOLOGY: PERCEPTION.** Selected research areas in the fields of sensory and perceptual processes. Includes literature review and experimental analysis. Lecture and laboratory. *Prerequisite: Psychology 310.*
- 465. EXPERIMENTAL PSYCHOLOGY: PHYSIOLOGICAL.** An introduction to the neural and endocrine processes underlying brain function and behavior. Lecture and laboratory. *Prerequisite: Psychology 310 or consent of instructor.*
- 470. EXPERIMENTAL PSYCHOLOGY: MOTIVATION.** Selected research in the area of motivation, both primary and acquired. Literature review and experimental analysis. Lecture and laboratory. *Prerequisite: Psychology 310.*
- 475. EXPERIMENTAL PSYCHOLOGY: SOCIAL.** Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Lecture and laboratory. *Prerequisite: Psychology 310 or Sociology 305.*
- 485. EXPERIMENTAL PSYCHOLOGY: PERSONALITY.** Empirical study of personality theories and the relationship of personality to behavior. Lecture and laboratory. *Prerequisites: Psychology 310, 377 and 385.*
- 490. COUNSELING PSYCHOLOGY.** Presentation of basic concepts, methods, and procedures pertaining to diagnostic and therapeutic activities of the counselor. *Prerequisites: Psychology 377, 390 and senior standing.*
- 498. HISTORY AND SYSTEMS OF PSYCHOLOGY.** A senior-level course intended to provide students with a historical framework for integrating basic orientations in contemporary psychology. *Prerequisites: Psychology 310 and senior standing.*
- 519. SEMINAR IN APPLIED PSYCHOLOGY.** Student-faculty participation in review and presentation of current areas in applied psychology. May be repeated for credit with consent of instructor. *Prerequisites: senior or graduate standing and consent of instructor.*
- 520. SEMINAR IN EXPERIMENTAL PSYCHOLOGY.** Student-faculty participation in review and presentation of advanced research areas. May be repeated for credit with consent of instructor. *Prerequisites: senior or graduate standing and consent of instructor.*



## Psychology

**526. MENTAL RETARDATION.** Study of mental retardation with emphasis on underlying problems in diagnosis, parental counseling and educational programming. *Prerequisites: Psychology 325, 326 and senior or graduate standing.*

**570. EXPERIMENTAL DESIGN.** Fundamental principles of quantitative design of experiments. Emphasis on comprehension and use of analysis of variance; includes an overview of factor analysis, multiple regression and scaling. *Prerequisites: Social Sciences 210 and consent of instructor.*

**577. PRACTICUM IN INDIVIDUAL INTELLIGENCE TESTING.** Administration and interpretation of individually administered intelligence tests. Lectures and supervised field training. *Prerequisite: Psychology 377.*

**585. GROUP COUNSELING.** Introduction to group counseling based on theories and methods derived from personality theory and social psychology. Includes study of theory and application of methods for facilitating group counseling. *Prerequisites: Psychology 490, senior standing and advanced written consent of instructor.*

**590. PRACTICUM IN COUNSELING PSYCHOLOGY.** Advanced study in counseling and personality evaluation based upon supervised work experience. *Prerequisites: Psychology 490, senior or graduate standing and consent of instructor.*

**595. INDEPENDENT STUDY.** Special topics involving literature and/or experimental effort. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units)

**610. ADVANCED METHODS IN PSYCHOLOGICAL RESEARCH.** An exploration of various experimental designs used in psychological research and their relation to selected statistical procedures such as analysis of variance, regression analysis and non-parametric techniques. *Prerequisites: graduate standing and one course in statistics.*

**611. ADVANCED INDEPENDENT STUDY.** Advanced research on a specific topic selected by the student with the approval of the student's committee. *Prerequisites: Psychology 610 and advancement to candidacy.* (Credit to be arranged: 2 to 5 units)

Each of the following courses (Psychology 625 through 690) deals with current theories and empirical research in the area specified. Students will be expected to read the technical literature in the area as found in scholarly journals, textbooks, handbooks and papers presented at scientific meetings. The courses will normally follow a seminar format with students and professor making presentations to the group for critical discussion. Each is a 5-unit course and requires at least unclassified graduate standing as a prerequisite.

**625. ADVANCED STUDIES IN DEVELOPMENTAL PSYCHOLOGY.**

**650. ADVANCED STUDIES IN LEARNING.**

**655. ADVANCED STUDIES IN INDUSTRIAL PSYCHOLOGY.**

**660. ADVANCED STUDIES IN PERCEPTION.**

**665. ADVANCED STUDIES IN PHYSIOLOGICAL PSYCHOLOGY.**

**675. ADVANCED STUDIES IN SOCIAL PSYCHOLOGY.**

**685. ADVANCED STUDIES IN PERSONALITY.**

**690. ADVANCED STUDIES IN COUNSELING AND PSYCHOTHERAPY.**

- 691. COUNSELING PRACTICUM I.** Supervised training in psychological assessment, emphasizing the methods of interviewing and vocational personality testing. Theory and research underlying these methods and practical, supervised experiences employing them. *Prerequisites: classified status and consent of instructor. Co-requisite: concurrent enrollment in Psychology 692.*
- 692. GROUP PSYCHOTHERAPY I.** This course must be taken concurrently with Psychology 691, Counseling Practicum I. The beginning counselor is provided with an opportunity for enhanced self-awareness and for personal growth, experiences which have proved to be invaluable for training in counseling. (2 units)
- 693. COUNSELING PRACTICUM II.** Supervised training in individual counseling, emphasizing the development of a variety of therapeutic techniques. Theory and research background of counseling and practical, supervised experience in developing these skills. *Prerequisites: advancement to candidacy, Psychology 691 and consent of instructor. Co-requisite: concurrent enrollment in Psychology 694.*
- 694. GROUP PSYCHOTHERAPY II.** This course must be taken concurrently with Psychology 693, Counseling Practicum II. This course is a continuation of Psychology 692. (2 units)
- 695. COUNSELING PRACTICUM III.** A continuation of Psychology 693. Advanced supervised training in individual counseling in a clinical setting. Supervised training in group counseling is also provided. *Prerequisites: Psychology 693 and consent of instructor. Co-requisite: concurrent enrollment in Psychology 696.*
- 696. GROUP PSYCHOTHERAPY III.** This course must be taken concurrently with Psychology 695, Counseling Practicum III. This course is a continuation of Psychology 694. (2 units)
- 699. THESIS.** *Prerequisites: advancement to candidacy and Psychology 610 and 611.*



## SOCIAL SCIENCES

Requirements for the major: A minimum of seven courses in one of the following fields, plus three courses each in two others: Administration, Anthropology, Economics, Geography, History, Political Science, Psychology and Sociology. Social Sciences 210 and/or 340 may be chosen as part of the requirements for the principal field of concentration. A minimum of seven courses must be taken at the upper-division level.

In addition to the above listed fields, a student may choose an Ethnic Studies group of three courses as a supporting field. The courses must be selected from those listed as Ethnic Studies courses and which have a Social Sciences number or a number from a department within the School of Social Sciences. No course may be used in a supporting field which has been used in any other part of the Social Sciences major.

Upon enrolling as a Social Sciences major, the student will be assigned an advisor from the department of his concentration, at which time a program of study will be agreed upon by the student and his advisor. No more than seven courses may be selected from any one department. The program is filed in the student's permanent folder in the Admissions Office but is subject to revision by mutual consent. Each department participating in this program has a list of its courses suitable for students choosing this curriculum.

**140. WORLD CIVILIZATIONS I, THE RISE OF CIVILIZATION.** Survey of the activities of man from the beginning through the rise and diffusion of civilization in the era of Middle Eastern dominance to about 500 B.C.

**142. WORLD CIVILIZATIONS II, THE CIVILIZATIONS OF THE EAST AND WEST.** Survey of the major achievements of the great civilizations from the flowering of Greek culture to the close of the Middle Ages in Europe.

**144. WORLD CIVILIZATIONS III, THE EXPANSION OF EUROPE.** Survey of the rise to dominance of the European states and their impact throughout the world, 1500 A.D. to the present.

**146. AMERICAN CIVILIZATION.** History of the United States as it emerged from colonial status to the present time. This course meets the State Code requirement in United States History, Constitution, and American ideals.

**150. CONTEMPORARY CIVILIZATION I.** Description and analysis of the political and economic systems and institutions of modern society and the issues confronting them. This course meets the State Code requirement in California state and local government.

**155. MINORITY GROUPS IN AMERICA.** Study of Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences.



## Social Sciences

- 160. CONTEMPORARY CIVILIZATION II.** Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology and psychology.
- 210. STATISTICS FOR THE SOCIAL SCIENCES.** An introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics.
- 220. INTRODUCTION TO CHICANO STUDIES.** Introductory study of the life of the Mexican-American: his culture, history, socio-economics, politics, education, social stratification and family life.
- 250. INTRODUCTION TO BLACK STUDIES.** An introduction to Black studies in a variety of contexts: the historic pilgrimage of the Black man from Africa to America, the contemporary struggle of the Black man in America, the future of the Black man in America.
- 300. NON-WESTERN WORLD.** Historical, political, social, geographic and economic aspects of non-western societies.
- 312. CHRISTIANITY IN HISTORY AND SOCIETY.** The origins of Christianity, the development of its doctrine and its impact on culture and society.
- 321. URBANIZATION AND THE URBAN ENVIRONMENT.** Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems.
- 340. COMPUTER APPLICATIONS IN THE SOCIAL SCIENCES.** General introduction to computers and automatic data processing and survey of contemporary programming languages. Computer application in behavioral research and data processing equipment. *Prerequisite: Social Sciences 210 or Math 150 or consent of instructor.*
- 411. THE AMERICAN WORKER IN AN AFFLUENT SOCIETY.** An historical analysis of the role of the American working man and woman in this society since 1900, with emphasis on the problems of labor unions in crisis and success and the changing status of the worker in America. A seminar course open to students in all majors.
- 412. PEASANT CULTURES IN THE MODERN WORLD.** An intensive study of village life in the developing countries, with special reference to their increasing involvement in the "revolution of rising expectations" and the new national, social, political and economic movements. A seminar course open to students in all majors.
- 415. RESEARCH METHODS IN BLACK STUDIES.** The philosophy, methods and materials necessary for producing a scholarly paper in Black studies. Presentation of a research paper in the student's major field.
- 416. UNITED STATES' NATIONAL SECURITY POLICY.** Problems of the United States' national security policy, including various approaches employed by social science disciplines in the examination of policy formation and administration. A seminar course open to students in all majors.
- 425. HISTORY AND THEORY OF ORGANIZATION.** Man's efforts to organize human activity; the evolution of forms of organization, the assumptions underlying contemporary forms and the theories that have been advanced to explain them. A seminar course open to students in all majors.

## Social Sciences

- 426. BUSINESS AND THE URBAN CHALLENGE.** The changing role of business in our society and the impact of changing value structures upon business goals and ethics. A seminar course open to students in all majors.
- 428. RELIGION, ETHNICITY AND POLITICS.** An examination of the dynamics and impact of religious and ethnic groups upon the American political process. Emphasis will be given to the nature and extent of bloc voting and its consequences for the American political system. A seminar course open to students in all majors.
- 434. MASS COMMUNICATION AND THE AMERICAN MIND.** A critical appraisal of the impact of mass communications on the character of American life from an inter-disciplinary approach. The historical roots of popular culture, which is now transmitted by mass media, will be explored, along with the technical, legal and economic constraints governing current media use. Emphasis will also be placed on the controversy over the social, psychological and political effects of mass communication. A seminar course open to students in all majors.
- 498. STUDIES IN SOCIAL SCIENCES.** Application of Social Science methods to crucial issues in society.
- 499. METHODS AND MATERIALS IN THE TEACHING OF THE SOCIAL SCIENCES.** May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*



## SOCIOLOGY

The Sociology major, as designed at this College, provides a well-balanced program for students who are either interested in graduate work or in the practical application of sociology.

As important adjuncts to the curriculum, there are two student organizations for Sociology majors, each represented at department faculty meetings. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general Sociology majors, students in Criminal Justice and Social Work actively participate in the club. A chapter of Alpha Kappa Delta, the Sociology honor society, is open to junior Sociology majors with a 3.5 GPA and to seniors and graduate students with a 3.0 GPA.

Requirements for the major: Social Sciences 210 or equivalent; Sociology 100, 305, 310, 312, and six additional Sociology courses, five of which must be upper-division. With the consent of the departmental advisor, two upper-division courses in related fields may be applied to course requirements for the major.

For those students interested in pursuing a career in social work, the department advises a second track in the Sociology major incorporating the following courses: Social Sciences 210 or equivalent; Sociology 100, 305, 310, 312, 434, 436, 484 and three additional Sociology courses. It is recommended that one of the three additional courses be Sociology 318.

Offered within the Sociology major is an optional program in Ethnic Studies, with emphasis in Black Studies or Mexican-American studies. The Ethnic Studies option requires Social Sciences 210 or equivalent; Sociology 100, 305, 310, 312; four courses in either Mexican-American Studies or Black Studies, at least two of which must be in Sociology; and two additional Sociology courses which fulfill requirements for the major as listed above.

Requirements for the minor: Six courses in Sociology selected with the consent of a departmental advisor. Two of these may be at the lower-division level.

Departmental Honors: Students majoring in Sociology are eligible to receive Honors in Sociology at graduation if they have met the following: 3.5 grade-point average in all Sociology courses attempted, at least half of all work attempted in Sociology completed at this College, and recommendation for departmental honors by the Sociology faculty.

**100. THE STUDY OF SOCIETY.** Survey of the basic characteristics and dynamics of society and culture from the sociological perspective.



## Sociology

**200. SOCIAL PROBLEMS.** Analysis of social problems in modern industrial societies. Discussion of sociological research and theoretical propositions dealing with such problems as drug addiction, mental illness, war, abortion and sexual perversions.

*Prerequisite for upper-division courses is Sociology 100, or equivalent, or consent of instructor.*

**305. SOCIOLOGICAL RESEARCH AND ANALYSIS.** Principles of research design, methods of data collection and analysis. *Prerequisite: Mathematics 150 or Social Sciences 210.*

**310. HISTORY OF SOCIOLOGICAL THEORY.**

**312. CONTEMPORARY SOCIOLOGICAL THEORY.** Analysis of contemporary sociological theory, including an examination of origins, trends, schools and areas of controversy. *Prerequisite: Sociology 310.*

**318. SOCIAL WELFARE POLICIES AND SERVICES.** Historic and current social welfare policies and services. A comparative evaluation of the United States and other world programs, policy and expectations with emphasis on philosophy, values and ethics.

**322. SOCIOLOGY OF THE GHETTO.** Existing theories relating to ghetto life styles; the relationship of these to American society as a whole.

**184 339. SOCIALIZATION.** A general survey of the theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis will be on organized social roles as they are mediated through the norms and patterned interactions of institutions, i.e., the family, peer groups and the schools.

**340. SOCIOLOGY OF THE FAMILY.** A systematic and comparative analysis of family structure and change: marriage, reproduction, child-rearing, marital problems.

**341. MARRIAGE AND FAMILY AMONG BLACKS.** The forces affecting the Black family, with emphasis on the roles assigned to individual members.

**342. THE CHICANO FAMILY.** Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective.

**350. CRIMINOLOGY.** The causes of crime with emphasis on sociological factors.

**352. JUVENILE OFFENDER.** Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation.

**354. DEVIANT BEHAVIOR.** Analysis of deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation.

**356. SOCIOLOGY OF MENTAL ILLNESS.** Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories.

**357. SOCIOLOGY OF LAW ENFORCEMENT AND JUDICIAL DECISION MAKING.**

Sociological analysis of law enforcement systems and court systems, consideration of police discretion, differential implementation of the criminal law, negotiation in criminal justice decisions, the interrelationships and interdependence of law enforcement and the courts.

**358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS.**

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers.

**359. SOCIOLOGY OF LAW.**

Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice.

**360. SOCIAL PSYCHOLOGY.**

Interpersonal relations and communication with special reference to development of self, role behavior, attitudes, values and social norms.

**363. SOCIOLOGY OF COMMUNICATION.**

Symbolic and organizational aspects of human communication systems including linguistic and non-linguistic means of communicating. Special attention will be devoted to attitudes and beliefs as influenced by interpersonal interaction and the mass media.

**364. PUBLIC OPINION AND PROPAGANDA.**

Nature and bases of public opinion; the social context of propaganda, its bases, its social psychological functions and the techniques of propagandists.

**366. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS.**

Social psychological bases of crowd behavior, rumor, panic, riots, disasters and social movements; with a special emphasis on social movements.

**368. SOCIOLOGY OF WORK AND THE PROFESSIONS.**

Development of occupational roles, with emphasis on specialization and mobility; impact of occupations on social institutions; special focus on the development of the professions.

**380. SOCIOLOGY OF RELIGION.**

Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change.

**400. SOCIAL CHANGE.**

Sources of change in societies; theories of social change, social conflict and the interpretation of social trends; social change and related problems in less-developed countries; processes and problems of planned change.

**410. RACIAL AND CULTURAL MINORITIES.**

Minority group status in contemporary American society.

**420. POPULATION PROBLEMS.**

The social causes and consequences of population trends.

**430. URBAN SOCIOLOGY.**

The nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations.

**432. POLITICAL SOCIOLOGY.**

Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest.

## Sociology

- 434. COMMUNITY ORGANIZATION.** Analysis of programs of action, operative and proposed, for the organization of the community and the solution of its problems.
- 435. THE SOCIOLOGY OF SMALL GROUPS.** Sociological analysis of the structure and processes of small groups, including the analysis of roles, interpersonal relations, group characteristics, and intergroup relations; examination of field and laboratory research on small groups.
- 436. GROUP DYNAMICS.** Dynamics and principles involved in social group work, including psychotherapy groups.
- 437. COMPLEX ORGANIZATIONS.** Sociological analysis of formal organizations (industrial, governmental, welfare, military, medical, educational, correctional, etc.) as systems of social interaction. Includes such topics as formal vs. informal structures, authority, decision-making, organizational innovation and development, role conflicts, communications and morale.
- 438. INDUSTRIAL SOCIOLOGY.** Human relations in industry, both formal and informal, with special attention to problems of morale, productivity, decision-making and bureaucratic structure.
- 439. MILITARY SOCIOLOGY.** The military institution—its functions and role in the modern state; socialization of its officers and men.
- 440. SOCIAL STRATIFICATION.** Class, caste and other systems of social stratification with particular reference to the United States.
- 441. BLACK SOCIAL STRATIFICATION.** Caste in America, comparison of Black and white stratification, Black social mobility.
- 442. CHICANO SOCIAL STRATIFICATION.** Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities.
- 472. SOCIAL ROLES AND SOCIAL INTERACTION.** The nature of face-to-face contact and role behavior among persons in social interaction in everyday life. The relations between the social self, social roles and communication in the day-to-day activities of persons in informal groups, closed establishments and in public places.
- 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT.** Study of the way in which societies lighten the conflicts of childhood with a promise of some security, identity and integrity.
- 482. FIELDS OF SOCIAL WORK.** Components of the broad field of social work, includes social work practice with all its specializations.
- 484. SOCIAL CASEWORK.** The process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning.
- 555. INDEPENDENT STUDY.** Special topics involving library and/or field research. *Prerequisites: senior or graduate standing and consent of instructor.*
- 575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK.** Supervised work and study in private or public organizations. May be repeated once for credit. *Prerequisite: consent of instructor and department.*
- 590. SEMINAR IN SOCIOLOGY.** An intensive study of some phase of sociology to be developed by the instructor with his class. May be repeated for credit, with consent of instructor.

## SPECIAL MAJOR

Occasionally, a student with special educational or vocational objectives may find that the existing degree programs of the College are inadequate and that a carefully structured, multidisciplinary program of study, drawn from the regular offerings of two or more departments, is more appropriate to his needs. The special major is designed to meet these needs.

The special major cannot be used simply to achieve breadth in an educational program, to substitute for a recognized degree program which the College is not authorized to offer, to bypass normal graduation requirements, nor as an alternative to completion of the degree requirements for a program in which the student is in academic difficulty.

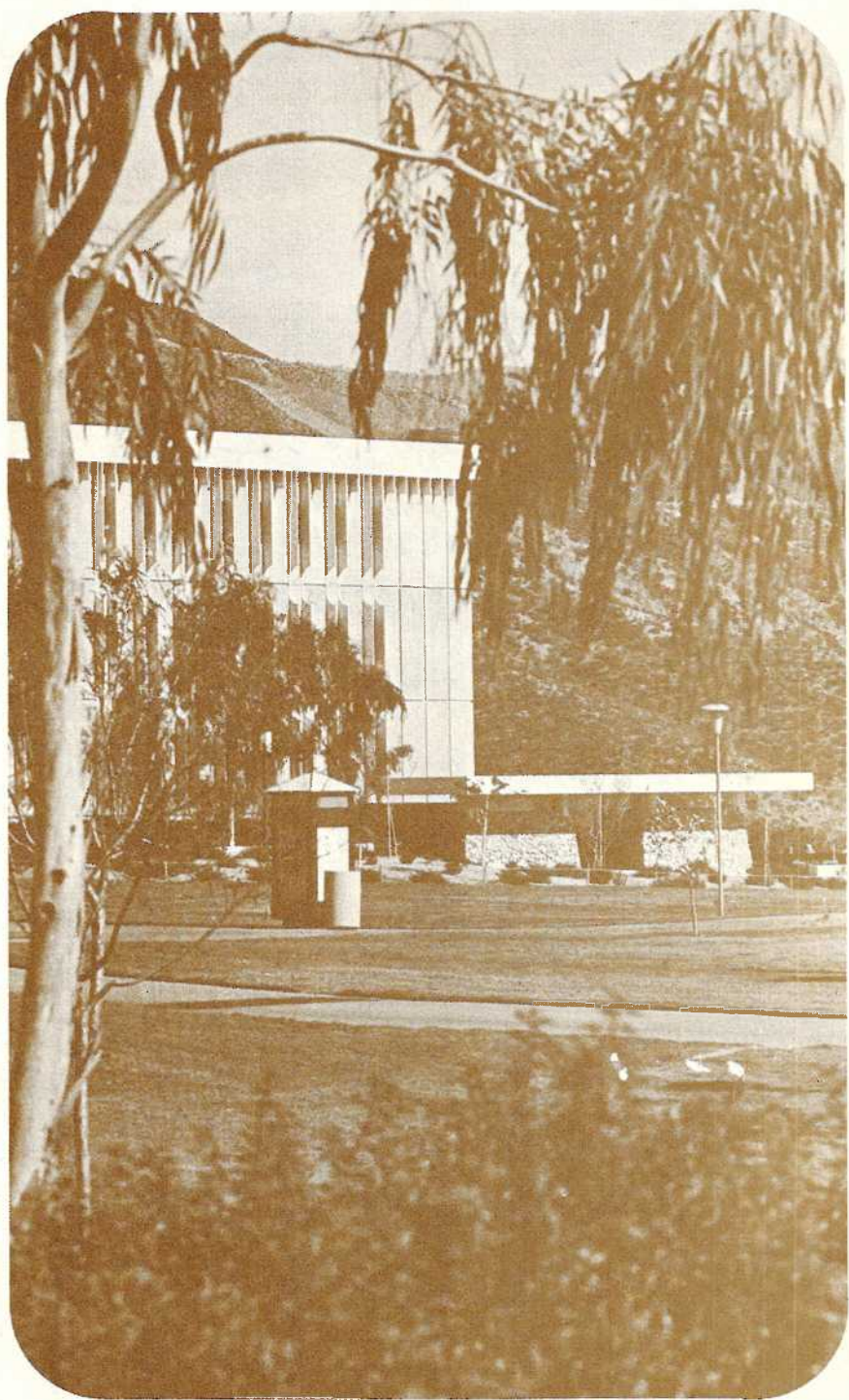
In order to be admitted to the special major program, a student must submit a written request for approval to the Dean of Academic Planning, stating his academic and professional reasons and outlining his proposed plan of study. In addition, the following regulations apply:

1. To be admitted to the special major program, the student must have more than one full year of academic work (45 quarter units) to complete to meet the minimum degree requirements for a bachelor's degree.
2. The plan of study must include at least 36 quarter units of upper-division course work.
3. No courses that are applied to the General Education requirement of the College are applicable toward minimum requirements of the special major.

For information concerning the Master of Arts degree with a special major, contact the Dean of Academic Planning.













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*Assistant Professor of Geography*

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**Elliott R. Barkan, 1968**

*Associate Professor of History*

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**Ronald E. Barnes, Jr., 1965**

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**Florence B. Mote, 1967***Professor of Education; Coordinator, Early Childhood and Elementary Education*

B.A. 1935, University of Washington; M.A. 1949, Ed.D. 1966, Stanford University.

**James L. Murphy, 1970***Associate Professor of Mathematics*

B.A. 1964, University of Detroit; M.S. 1966, Ph.D. 1970, Michigan State University.

**Arthur Nelson, 1963***Director of Library*

B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

**C. Michael O'Gara, 1964***Professor of Physical Education; Chairman, Department of Physical Education and Recreation*

B.S. 1944, M.S. 1952, University of California, Los Angeles.

**Walter C. Oliver, 1969**

*Associate Professor of Spanish; Chairman, Department of Foreign Languages and Literature*  
 B.A. 1963, New Mexico State University; M.A. 1966, Ph.D. 1970, University of New Mexico.

**Esteban L. Olmedo, 1973**

*Assistant Professor of Psychology*  
 B.A. 1967, M.A. 1971, Ph.D. 1972, Baylor University.

**Ruthann Olsen, 1968**

*Lecturer in Physical Education*  
 B.S. 1963, LaCrosse State University.

**George Patail, 1974**

*Assistant Librarian*  
 B.A. 1970, University of Redlands; M.A. 1972, M.S. 1973, California State University, Fullerton.

**Clifford T. Paynton, 1968**

*Professor of Sociology; Chairman, Department of Sociology*  
 B.A. 1958, Seattle Pacific College; M.A. 1962, Ph.D. 1964, University of Washington.

**Dennis M. Pederson, 1970**

*Assistant Professor of Chemistry*  
 B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

**Stuart M. Persell, 1967**

*Associate Professor of History*  
 B.A. 1962, University of California, Santa Barbara; M.A. 1963, Ph.D. 1969, Stanford University.

**Ralph H. Petrucci, 1964**

*Professor of Chemistry; Dean of Academic Planning*  
 B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin.

**John M. Pfau, 1962**

*Professor of History; President*  
 A.B. 1947, A.M. 1948, Ph.D. 1951, University of Chicago.

**James C. Pierson, 1971**

*Assistant Professor of Anthropology; Chairman, Department of Anthropology*  
 B.A. 1965, M.A. 1969, Sacramento State College; Ph.D. 1972, Washington University.

**Gregory L. Price, 1971**

*Assistant Professor of Physical Education*  
 B.S. 1969, Fort Hays Kansas State College; M.S. 1972, California State College, Long Beach.

**H. Stephen Prouty, Jr., 1964**

*Associate Dean, Admissions and Records*  
 B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

**Johnnie Ann Ralph, 1971**

*Senior Assistant Librarian*  
 B.A. 1967, M.A. 1969, University of California, Riverside; M.L.S. 1970, University of Kentucky.

**John R. Reilich, 1973**

*Assistant Professor of Administration*  
 B.E.E. 1964, City University of New York; M.P.A. 1971, University of Southern California.

**Tom M. Rivera, 1972**

*Assistant Professor of Education; Associate Dean, Educational Opportunity Program*  
B.A. 1962, M.A. 1968, California State University, Los Angeles; Ed.D. 1973, University of California, Los Angeles.

**Robert R. Roberts, 1963**

*Professor of History; Chairman, Department of History*  
A.B. 1942, Whitman College; M.A. 1947, Ph.D. 1952, University of Chicago.

**J. Cordell Robinson, 1971**

*Assistant Professor of History*  
B.A. 1963, Columbia Union College; M.A. 1968, Ph.D. 1971, Indiana University.

**James L. Robinson, Jr., 1973**

*Assistant Professor of Political Science*  
B.A. 1969, California State College, Los Angeles; M.A. 1971, University of California, Los Angeles.

**Elizabeth B. Rodgers, 1972**

*Assistant Professor of Art*  
B.A. 1963, Stanford University; M.A. 1969, University of Kansas.

**George E. Roth, 1972**

*Assistant Professor of Anthropology*  
B.A. 1962, Reed College; M.A. 1966, University of Chicago.

**Amanda Sue Rudisill, 1969**

*Associate Professor of Drama*  
B.S. 1964, Millersville State College; M.A. 1966, Pennsylvania State University; Ph.D. 1972, Northwestern University.

**Mireille G. Rydell, 1968**

*Professor of French*  
Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

**Judith Ann Rymer, 1970**

*Assistant Professor of Education*  
B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas; Ph.D. 1970, Ohio State University.

**Richard S. Saylor, 1968**

*Professor of Music*  
B.S. 1950, B.M. 1955, Ithaca College; M.M. 1958, University of Michigan; D.M.A. 1966, Stanford University.

**Gerald M. Scherba, 1962**

*Professor of Biology; Vice President for Academic Affairs*  
B.S. 1950, M.S. 1952, Ph.D. 1955, University of Chicago.

**Kent M. Schofield, 1966**

*Associate Professor of History; Associate Dean of Academic Planning*  
B.A. 1961, University of California, Riverside; M.A. 1962, Claremont Graduate School; Ph.D. 1966, University of California, Riverside.

**Peter R. Schroeder, 1967**

*Associate Professor of English*  
A.B. 1962, Stanford University; M.A. 1963, Ph.D. 1967, Harvard University.

**Robert A. Schwabe, 1969**

*Director of Institutional Research*  
B.A. 1953, Denison University; M.A. 1958, Syracuse University; Ph.D. 1969, University of California, Riverside.

**Cuthbert L. Scott, III, 1973**

*Assistant Professor of Administration*

B.A. 1968, M.S. 1970, Southern Illinois University.

**Maria N. Senour, 1973**

*Assistant Professor of Education*

B.A. 1964, Marygrove College; M.Ed. 1968, University of Toledo; Ph.D. 1972, Wayne State University.

**Robert A. Senour, 1970**

*Assistant Professor of Education; Director of Audiovisual Services*

B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

**Michael Simmons, 1971**

*Assistant Professor of Anthropology*

B.S. 1962, Columbia University; M.A. 1966, Ph.D. 1970, University of Arizona.

**William L. Slout, 1968**

*Associate Professor of Drama*

B.A. 1949, Michigan State University; M.S. 1950, Utah State University; Ph.D. 1970, University of California, Los Angeles.

**George E. Slusser, 1971**

*Assistant Professor of English*

A.B. 1961, University of California, Berkeley; Diplome d'Etudes 1962, University de Poitiers, France.

**Robert A. Smith, 1965**

*Professor of History*

B.Ed. 1941, Southern Illinois University; M.A. 1946, Ph.D. 1950, University of Illinois.

**Alexander Sokoloff, 1965**

*Professor of Biology*

A.B. 1948, University of California, Los Angeles; Ph.D. 1954, University of Chicago.

**Neville Spencer, 1968**

*Assistant Professor of Mathematics*

B.A. 1962, University of Texas; M.A. 1965, University of Southern California; Ph.D. 1972, University of California, Riverside.

**Gordon E. Stanton, 1968**

*Professor of Education; Coordinator, Secondary Education*

B.A. 1948, M.A. 1952, Ed.D. 1967, University of California, Los Angeles.

**Robert G. Stein, 1967**

*Assistant Professor of Mathematics*

B.A. 1961, Harvard College; M.A.T. 1962, Wesleyan University; M.A. 1967, Dartmouth College.

**Norman W. Steinaker, 1970**

*Assistant Professor of Education*

A.B. 1953, M.A. 1964, University of Redlands; Ed.D. 1971, Ball State University.

**P. Richard Switzer, 1970**

*Professor of French; Dean, School of Humanities*

A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

**Kaoru Takata, 1971**

*Assistant Professor of Economics; Coordinator, Department of Economics*

B.S. 1958, Arizona State University.



**James D. Thomas, 1968**

*Associate Professor of Political Science; Dean of Academic Administration*  
B.S.F.S. 1955, Georgetown University; M.A. 1961, Ph.D. 1965, Claremont Graduate School.

**Joseph K. Thomas, 1965**

*Professor of Education; Vice President for Administration*  
B.S. 1943, Washington State University; M.S. 1949, University of Southern California;  
Ed.D. 1957, University of Missouri, Columbia.

**Elton N. Thompson, 1968**

*Associate Professor of Education*  
A.B. 1941, San Jose State College; M.A. 1949, Ed.D. 1967, Stanford University.

**John Tibbals, 1968**

*Librarian IV*  
B.A. 1965, University of California, Santa Barbara; M.S. in L.S. 1966, University of Southern California.

**Leslie E. Van Marter, 1965**

*Professor of Philosophy; Chairman, Department of Philosophy*  
A.B. 1953, Manhattan College; A.M. 1954, Ph.D. 1964, University of Chicago.

**Dale E. Wagner, 1972**

*Assistant Professor of Political Science*  
B.A. 1964, Drake University; M.A. 1968, The American University.

**Carl P. Wagoner, 1969**

*Associate Professor of Sociology*  
B.S. 1960, Ball State University; M.A. 1964, Ph.D. 1971, Indiana University.

**William Warehall, 1973**

*Assistant Professor of Art*  
B.F.A. 1968, Wayne State University; M.F.A. 1971, University of Wisconsin.

**Lynda W. Warren, 1973**

*Assistant Professor of Psychology*  
B.A. 1964, College of William and Mary; Ph.D. 1970, University of Minnesota.

**George A. Weiny, 1967**

*Professor of Physical Education*  
B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

**Florence Weiser, 1974**

*Lecturer in Chemistry; Assistant Dean of Academic Administration*  
B.A. 1946, Brooklyn College; M.A. 1948, Indiana University.

**Robert L. West, 1966**

*Professor of Education*  
B.A. 1948, Willamette University; M.A. 1949, Ed.D. 1955, Stanford University.

**Edward M. White, 1965**

*Professor of English; Chairman, Department of English*  
B.A. 1955, New York University; M.A. 1956, Ph.D. 1960, Harvard University.

**Kenneth L. White, 1973**

*Lecturer in Geography*  
B.A. 1969, M.A. 1970, California State University, Fullerton.

**Alice K. Wilson, 1969**

*Librarian II*  
A.B. 1937, University of Dubuque; M.L.S. 1968, University of California, Los Angeles.

**Ruth C. Wilson, 1971**

*Assistant Professor of Biology*

B.A. 1961, M.A. 1964, California State College, Los Angeles; Ph.D. 1971, Claremont Graduate School.

**Don Woodford, 1972**

*Associate Professor of Art*

B.A. 1963, Cornell College; M.A. 1964, Illinois State University; M.F.A. 1965, University of Wisconsin.

**Dolores A. Wozniak, 1973**

*Professor of Nursing; Chairman, Department of Nursing*

B.S. 1961, Hunter College; M.A. 1962, Ed.M. 1969, Ed.D. 1971, Columbia University Teachers College.

**Freeman J. Wright, 1974**

*Professor of Political Science; Dean, School of Social Sciences*

B.S. 1955, M.S. 1960, Montana State University; Ph.D. 1964, Johns Hopkins University.

**Walter O. Zoecklein, 1969**

*Associate Professor of Philosophy*

A.B. 1940, University of Cincinnati; M.A. 1960, University of Puget Sound; Ph.D. 1969, University of California, San Diego.

**ADDENDUM**

**Melvin William Aussieker, Jr., 1974**

*Assistant Professor of Administration*

B.S. 1968, M.B.A. 1969, University of California, Berkeley.

**Joel Ruth Bollinger, 1974**

*Lecturer in Spanish*

B.A. 1967, Albion College, M.A. 1970, Ph.D. 1972, Michigan State University.

**Henry Lewis Custer, 1974**

*Associate Professor of Administration*

B.A. 1959, Duke University; M.B.A. 1965, University of Denver; Ph.D. 1970, University of Alabama.

**Robert M. O'Brien, 1974**

*Lecturer in Sociology*

B.A. 1967, Pomona College; M.A. 1970, Ph.D. 1973, University of Wisconsin.

**Gary R. Ray, 1974**

*Assistant Professor of Economics*

B.A. 1965, M.A. 1972, University of California, Santa Barbara.

**Ellen L. Taylor, 1974**

*Assistant Professor of Biology*

B.A. 1963, University of Vermont; Ph.D. 1969, University of Pennsylvania.

**EMERITUS FACULTY**

**Robert R. Harrison, Emeritus Professor of Art, 1972**

**Robert G. Fisk, Emeritus Professor of Education, 1973**

## SPECIAL APPOINTMENTS

**Bruce F. Anderson, 1972**

*Studio Music Instructor*

B.M. 1972, University of Redlands.

**Marie Astor, 1967**

*Studio Music Instructor*

Master Certificate 1951, Luzern; L.R.A.M. 1958, Royal Academy of Music.

**Gail Barnes, 1971**

*Studio Music Instructor*

B.M. in Ed. 1964, M.M. 1965, University of Arizona.

**John R. Barrett, 1970**

*Studio Music Instructor*

**Edward P. Casem, 1967**

*Studio Music Instructor*

B.A. 1967, California State College, Fullerton.

**Dan Delahoyde, 1972**

*Studio Music Instructor*

B.A. 1969, University of Redlands.

**Betty Jackson, 1967**

*Studio Music Instructor*

B.M. 1948, M.M. 1949, B. Mus. Ed. 1963, University of Colorado.

**Lawrence M. Johanson, 1972**

*Studio Music Instructor*

B.A. 1967, Fresno State College.

**James H. Keays, 1974**

*Studio Music Instructor*

B.S. 1962, University of Redlands; B.M. 1970, M.M. 1971, University of Illinois.

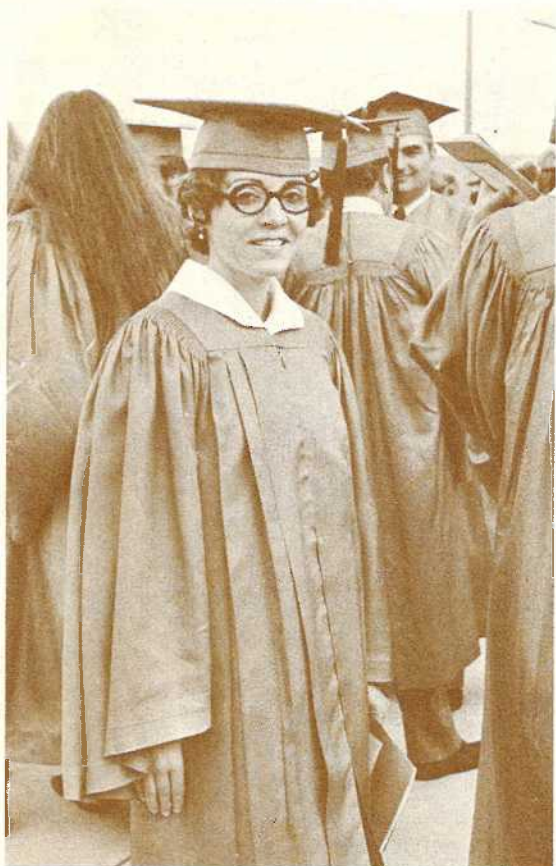
**Victoria Shapiro, 1967**

*Studio Music Instructor*

Diploma 1947, B.S. in Viola 1949, Julliard School of Music.









## APPENDIX

### DETERMINATION OF RESIDENCE

New and returning students of The California State University and Colleges are classified for the purpose of determining the residence of each student for nonresident tuition purposes. The residence questionnaire and, if necessary, other evidence furnished by the student are used in making these determinations. A student may not register and enroll in classes until his residence questionnaire has been received by the Admissions Office.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The laws governing residence determination for tuition purposes by the California State University and Colleges are found in Education Code Sections 22800-22865, 23753.1, 23754-23754.4, 23758.2 and 23752, and in Title 5 of the California Administrative Code, Article 4 (commencing with Section 41901) of Subchapter 5 of Chapter 1, Part V. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by an adult who is physically present in the state while, at the same time, intending to make California his permanent home. Steps must be taken at least one year prior to residence determination date to evidence the intent to make California the permanent home with concurrent relinquishment of the prior legal residence. Some of the relevant indicia of an intention to establish and maintain California residence may be established by registering to vote and voting in elections in California; satisfying resident California state income tax obligations on total income; ownership of residential property or continuous occupancy or letting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of his stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from his father (or from his mother if the father is deceased), or, in the case of permanent separation of the parents, from the parent with whom the minor maintains his place of abode. The residence of a minor cannot be changed by act of the minor or that of the minor's guardian, so long as the minor's parents are living.

A man or a woman may establish his or her residence; marriage is not a governing factor.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes. A residence determination date is set for each academic term. The residence determination date for the fall 1974 academic quarter is Sept. 13, 1974. A student having any questions about the applicable date should contact the Admissions Office.

There are several exceptions for nonresident tuition. Some of them provide for:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.

2. Persons below the age of 19 who have been present in California for more than a year before the residence determination date and have been entirely self-supporting for that period of time.

3. Persons below the age of 19 who have lived with and have been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.

4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception is not affected by transfer of the military persons directly to a post outside the 50 states and District of Columbia.

5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.

6. A student who is an adult alien is entitled to residence classification if he has been lawfully admitted to the United States for permanent residence in accordance with all applicable provisions of the laws of the United States; provided, however, that the student has had residence in California for more than one year after such admission prior to the residence determination date. A student who is a minor alien shall be entitled to residence classification if both he and the parent from whom residence is derived have been lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States, provided that the parent has had residence in California for more than one year after acquiring such permanent residence prior to the residence determination date of the term for which the student proposes to attend the College.

7. Certain credentialed, full-time employees of school districts.

8. Full-time State University and Colleges employees and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.

9. Certain exchange students.

10. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.

11. A person in continuous full-time attendance at an institution who had resident classification on May 1, 1973, shall not lose such classification as a result of adoption of the uniform student residency law on which this statement is based, until the attainment of the degree for which currently enrolled.

Any student, following a final decision about his residence classification by the campus, may make written appeal to:

Office of General Counsel  
5670 Wilshire Boulevard  
Suite 1260  
Los Angeles, CA 90036

within 120 calendar days of notification of the final decision on campus of his classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the institution with instructions for a further review on campus. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Administrative Code. Resident students who

become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes and in the regulations between the time this catalog is published and the relevant residence determination date.



## ELIGIBILITY INDEX

The following chart is used in determining the eligibility of graduates of California high schools (or California legal residents) for freshman admission to a State University or College. Grade-point averages are based on work completed in the last three years of high school, exclusive of physical education and military science. Scores shown are the SAT total and the ACT composite. Students with a given GPA must present the corresponding test score. Conversely, students with a given ACT or SAT score must present the corresponding GPA in order to be eligible.

The minimum eligibility index is: SAT=3072 and ACT=741. The index is computed either by multiplying the grade-point average by 800 and adding it to the total SAT score, or multiplying the grade-point average by 200 and adding it to 10 times the composite ACT score.

GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score
(.....) <sup>1</sup>			2.96	15	704	2.71	20	904	2.47	25	1096	2.22	30	1296
3.20	11	512	2.95	16	712	2.70	21	912	2.46	25	1104	2.21	30	1304
3.19	11	520	2.94	16	720	2.69	21	920	2.45	26	1112	2.20	31	1312
3.18	11	528	2.93	16	728	2.68	21	928	2.44	26	1120	2.19	31	1320
3.17	11	536	2.92	16	736	2.67	21	936	2.43	26	1128	2.18	31	1328
3.16	11	544	2.91	16	744	2.66	21	944	2.42	26	1136	2.17	31	1336
3.15	12	552	2.90	17	752	2.65	22	952	2.41	26	1144	2.16	31	1344
3.14	12	560	2.89	17	760	2.64	22	960	2.40	27	1152	2.15	32	1352
3.13	12	568	2.88	17	768	2.63	22	968	2.39	27	1160	2.14	32	1360
3.12	12	576	2.87	17	776	2.62	22	976	2.38	27	1168	2.13	32	1368
3.11	12	584	2.86	17	784	2.61	22	984	2.37	27	1176	2.12	32	1376
3.10	13	592	2.85	18	792	2.60	23	992	2.36	27	1184	2.11	32	1384
3.09	13	600	2.84	18	800	2.59	23	1000	2.35	28	1192	2.10	33	1392
3.08	13	608	2.83	18	808	2.58	23	1008	2.34	28	1200	2.09	33	1400
3.07	13	616	2.82	18	816	2.57	23	1016	2.33	28	1208	2.08	33	1408
3.06	13	624	2.81	18	824	2.56	23	1024	2.32	28	1216	2.07	33	1416
3.05	14	632	2.80	19	832	2.55	24	1032	2.31	28	1224	2.06	33	1424
3.04	14	640	2.79	19	840	2.54	24	1040	2.30	29	1232	2.05	34	1432
3.03	14	648	2.78	19	848	2.53	24	1048	2.29	29	1240	2.04	34	1440
3.02	14	656	2.77	19	856	2.52	24	1056	2.28	29	1248	2.03	34	1448
3.01	14	664	2.76	19	864	2.51	24	1064	2.27	29	1256	2.02	34	1456
3.00	15	672	2.75	20	872	2.50	25	1072	2.26	29	1264	2.01	34	1464
2.99	15	680	2.74	20	880	2.49	25	1080	2.25	30	1272	2.00	35	1472
2.98	15	688	2.73	20	888	2.48	25	1088	2.24	30	1280	(.....) <sup>2</sup>		
2.97	15	696	2.72	20	896				2.23	30	1288			

<sup>1</sup> Students earning grade-point averages above 3.20 are eligible for admission.

<sup>2</sup> Students earning grade-point averages below 2.0 are not eligible for admission.

## STUDENT CONDUCT CODE

### Expulsion, Suspension and Probation of Students

Violation of Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code can result in disciplinary action on campus.

**41301. Expulsion, Suspension and Probation of Students.** Following procedures consonant with due process established for the campus of which he is a student, any student of a campus may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

- (a) Cheating or plagiarism in connection with an academic program at a campus.
- (b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.
- (c) Misrepresentation of oneself or of an organization to be an agent of a campus.
- (d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
- (e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his family or the threat of such physical abuse.
- (f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
- (g) Unauthorized entry into, unauthorized use of, or misuse of campus property.
- (h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.
- (i) Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college campus function without prior authorization of the campus president.
- (j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- (k) Abusive behavior directed toward, or hazing of, a member of the campus community.
- (l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
- (m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
- (n) For purposes of this Article, the following terms are defined:
  - (1) The term "member of the campus community" is defined as meaning California State University and Colleges Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
  - (2) The term "campus property" includes:
    - (A) real or personal property in the possession of, or under the control of, the Board of Trustees of the California State University and Colleges, and
    - (B) all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
  - (3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
  - (4) The term "behavior" includes conduct and expression.

(5) The term "hazing" means any method of Initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger or physical or emotional harm to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.

(o) This Section is not adopted pursuant to Education Code Section 23604.1.

(p) The provisions of this Section as hereinabove set forth shall only apply to acts and omissions occurring subsequent to its effective date. Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Expulsion, Suspension or Probation of Students; Fees and Notification. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he is suspended, no additional tuition or fees shall be required of the student on account of his suspension. In the event that a student who has not reached his eighteenth birthday is suspended or expelled, the President shall notify his parent or guardian of the action by registered mail to the last known address, return receipt requested.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or his designated representative, enter any campus of the California State University and Colleges other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

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*Pursuant to Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code, President John M. Pfau hereby declares that any sit-in or other form of demonstration within a building at California State College, San Bernardino will be considered a violation of this code.*

#### **Board of Trustees Policy Relating to Conduct on State College Campuses**

The following restatement of policy of the Board of Trustees of the California State Colleges is extracted from a resolution approved by the Board in November 1968.

RESOLVED, By the Board of Trustees of California State Colleges, that this Board recognizes the need for a clear understanding of those types of behavior considered wholly unacceptable within the College Community; and be it further

RESOLVED, That this Board wishes to indicate to staff, students, and visitors alike that any of the following violations of orderly conduct are to be considered cause for prompt and diligent corrective action on the part of appropriate officials, including college disciplinary proceedings and the bringing of criminal charges where appropriate:

1. Obstruction or disruption of any authorized state college activity, including those of auxiliary organizations, whether on state college property or at any location then controlled by a state college.
2. Obstruction of either pedestrian or vehicular traffic on state college owned or controlled property.
3. Physical abuse or detention of any member of the college community at any location or of any other person while that person is a visitor on state college owned or controlled property.
4. Theft of or damage to state college property or property of any person while that property is on state college owned or controlled property.
5. Conduct which endangers the health or safety of any person while on state college owned or controlled property or at any college sponsored or supervised function.
6. Unauthorized entry to or use of any state college facilities, including buildings, grounds and equipment.
7. Failure to comply with directions of college police and any other law enforcement officers while they are acting in the performance of their duties.
8. Illegal possession or use of firearms, explosives, dangerous chemicals or other weapons on state college owned or controlled property.
9. Failure to comply with directions of a State College President or his authorized designee(s) while acting in the performance of his(their) duties.
10. Disorderly conduct, breach of the peace, and aiding, abetting or procuring another to breach the peace on state college owned or controlled property or at any state college sponsored or supervised functions; and be it further

RESOLVED, That this resolution is not to be construed as superseding any additional violations as specified by law, the administrative code, the resolutions of this Board, or the rules of any particular college.



## AVERAGE ANNUAL COSTS AND SOURCES OF FUNDS

The 19 campuses of The California State University and Colleges are financed primarily through funding provided by the taxpayers of California. For the 1973-74 year, the total cost of operation was \$553.8 million, which provides continuing support for 233,290 full-time equivalent (FTE\*) students. This results in an average cost per FTE student of \$2,374 per year. Of this amount, the average student pays \$224. Included in this average student payment is the amount paid by nonresident students. The remaining \$2,150 in costs is funded by state and federal taxes.

Averages do not fit all students alike or even any specific student. To arrive at a average figure that is meaningful, the costs outlined above exclude costs of living expenses, housing, parking, extension and summer session work. Computations are based on full-time equivalent students, not individuals. Costs are prorated by system totals, not by campus. The average costs for a full-time equivalent student in the system are depicted in the following chart:

### 1973-74 TOTAL COSTS OF CAMPUS OPERATION

(including building and land amortization)

Enrollment: 233,290 FTE

	Amount	Average cost per student (FTE)*	Percentage
State appropriation (support) .....	\$441,860,573	\$1,894	79.8
State funding (capital outlay)** .....	29,161,250	125	5.3
Student charges .....	52,349,450	224***	9.4
Federal (financial aids) .....	30,476,849	131	5.5
<b>Total</b> .....	<b>\$553,848,122</b>	<b>\$2,374</b>	<b>100.00</b>

\* For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load. The term assumes that a full-time student in The California State University and Colleges is enrolled for 15 units of academic credit. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.

\*\* The system's more than 14,000 acres of land and the wide range of facilities and equipment on the 19 campuses are currently valued at approximately \$1.2 billion. Amortized over a 40-year period, they are valued at \$125 per FTE student.

\*\*\* The average costs paid by a student include the materials and service fee, health facilities fee, college union fee, student body fee and the nonresident tuition. This amount is derived by taking the total of all student fees and dividing by the total full-time equivalent student enrollment. Individual students may pay more or less than \$224 depending on whether they are part-time, full-time, resident or nonresident students.

## NOTES

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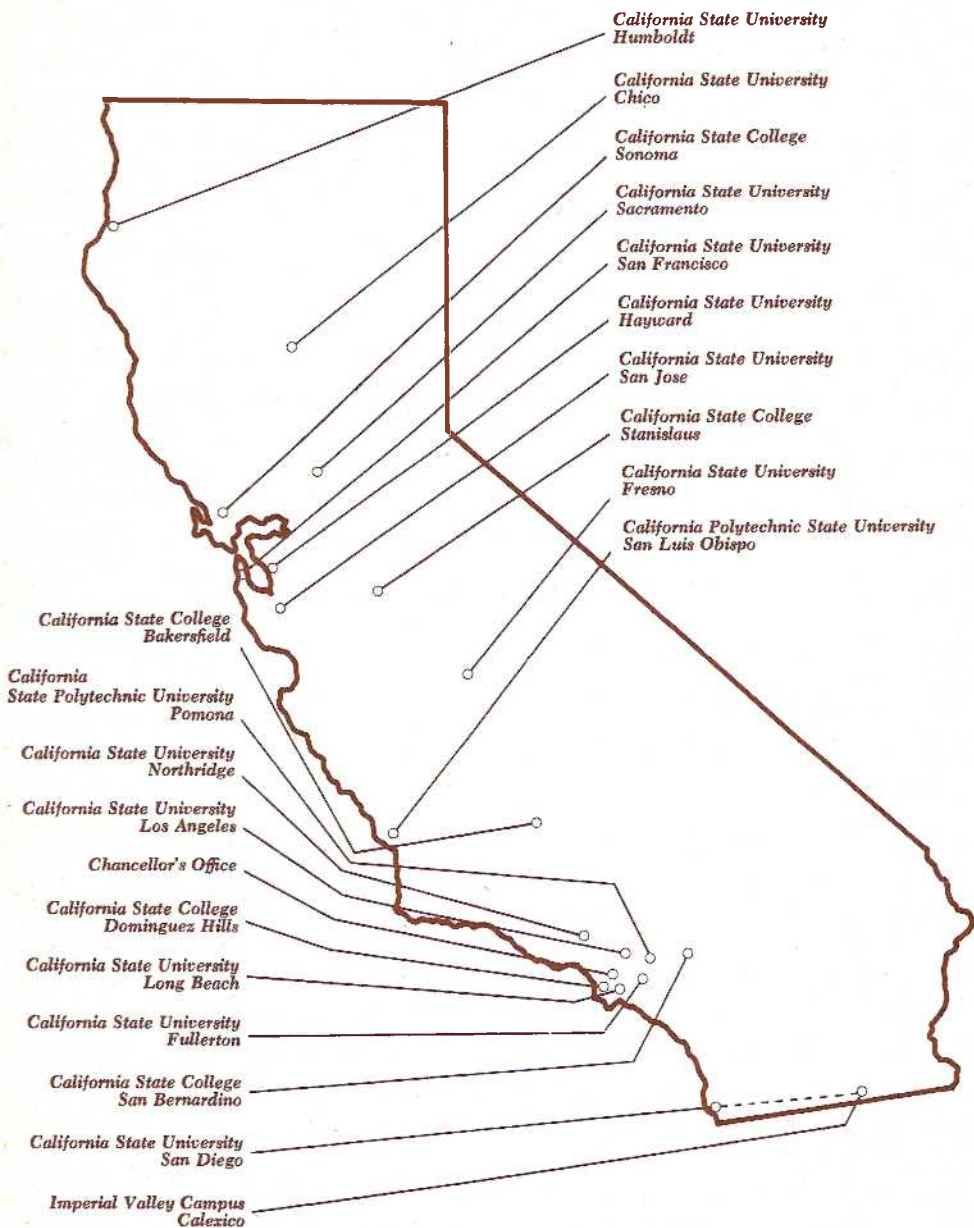
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# THE CALIFORNIA STATE UNIVERSITY AND COLLEGES





*Bulletin 1974-75*

CALIFORNIA STATE COLLEGE  
SAN BERNARDINO

THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

## DIRECTORY

Inquiries about admission to the College should be addressed to:  
Associate Dean of Admissions  
California State College, San Bernardino  
5500 State College Parkway, San Bernardino, CA 92407  
Telephone (714) 887-6311

Other inquiries:

General Information and Graduate Programs: *Dean of Academic Planning* . . . Extension and Summer Session: *Dean of Continuing Education* . . . Housing: *Housing Coordinator* . . . Student Bills and Fees: *Bursar* . . . Financial Aid and Placement: *Associate Dean of Financial Aid* . . . Transcripts and Veterans: *Registrar*

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